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BUREAU OF SHIPS GROUP
TECHNICAL INSPECTION REPORT

Classification (Controlled) (Controlled to Security Information)
By Authority of JOINT CHIEFS OF STAFF JCS 1795/36 DATED 15 APRIL 1949
By John H. Byette Date 22 SEP 1953

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⑥ OPERATION CROSSROADS.
U.S.S HUGHES (DD410).
TEST BAKER.

VOLUME II [u] ⑧

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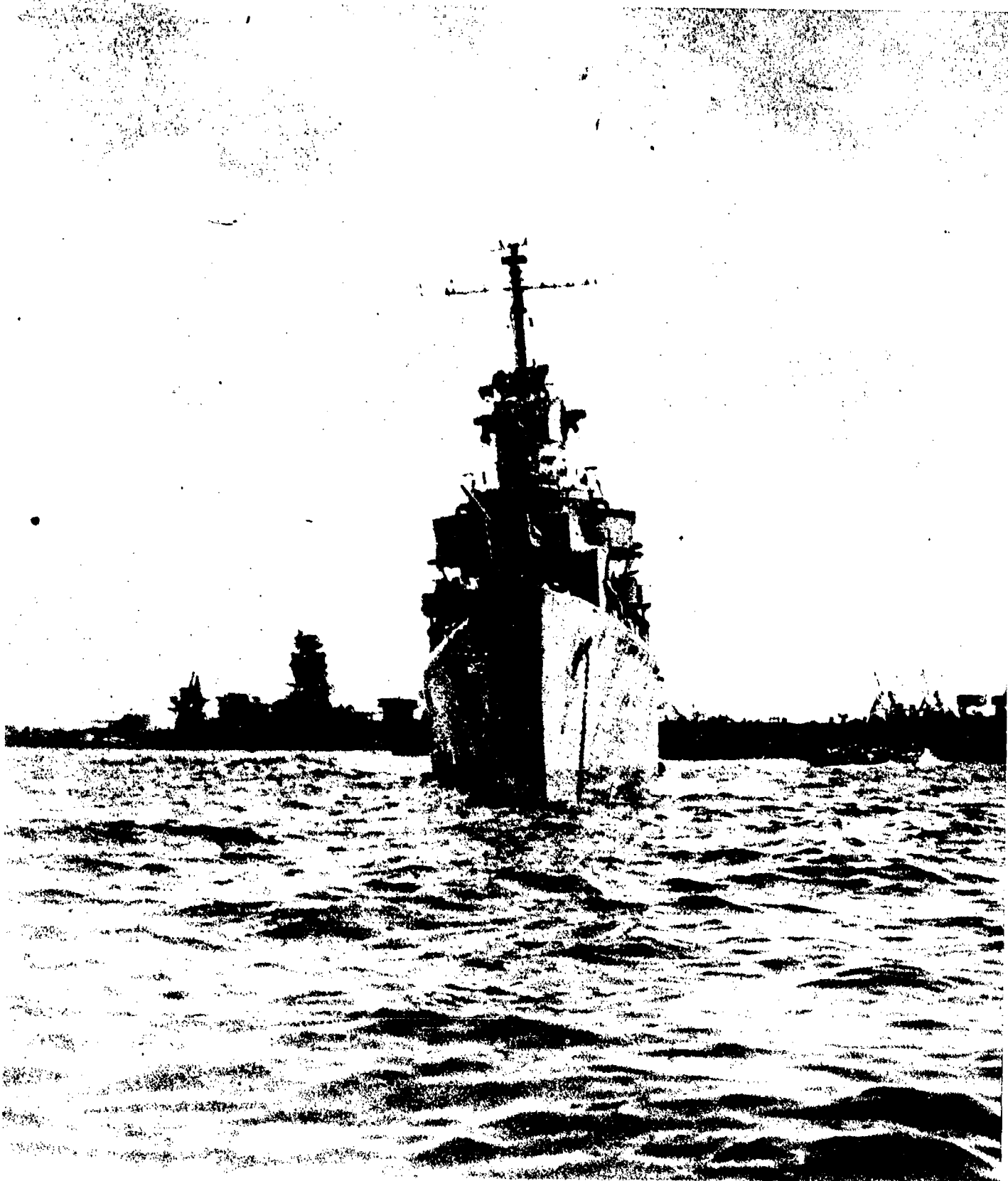
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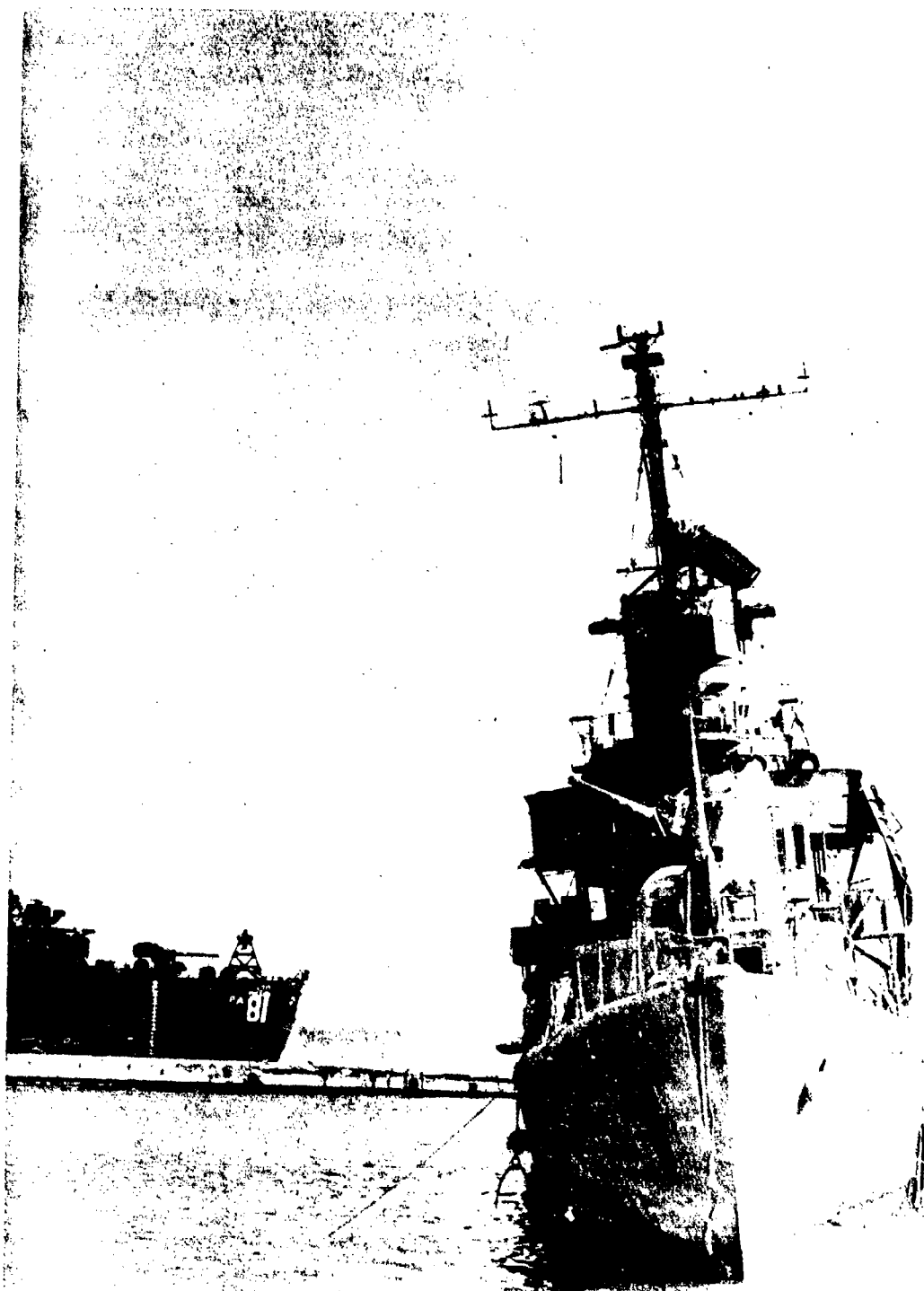
BB-CR-227-513-9. Bow before Test B.

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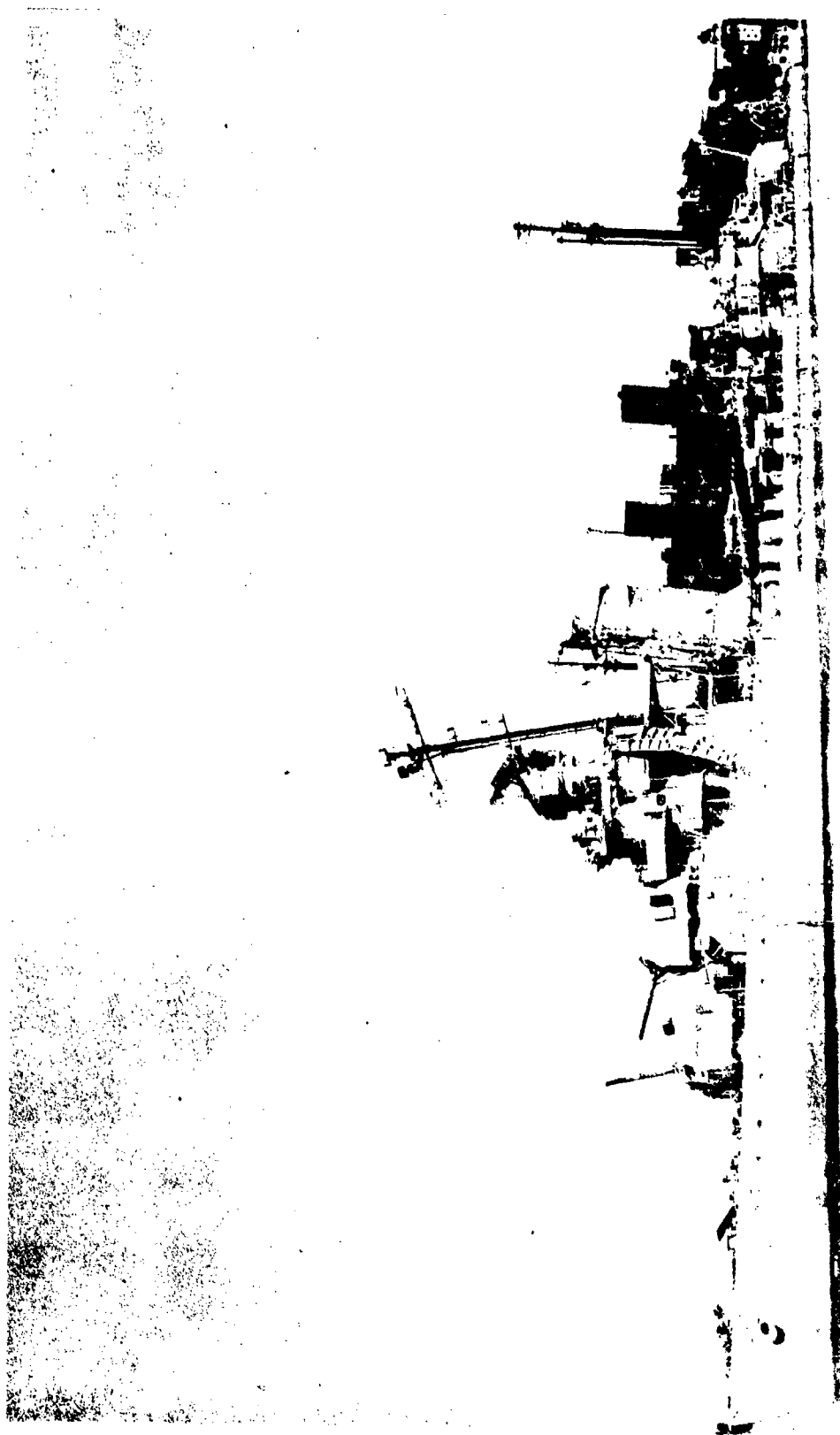
AB-CR-227-290-36. Bow after Test B.

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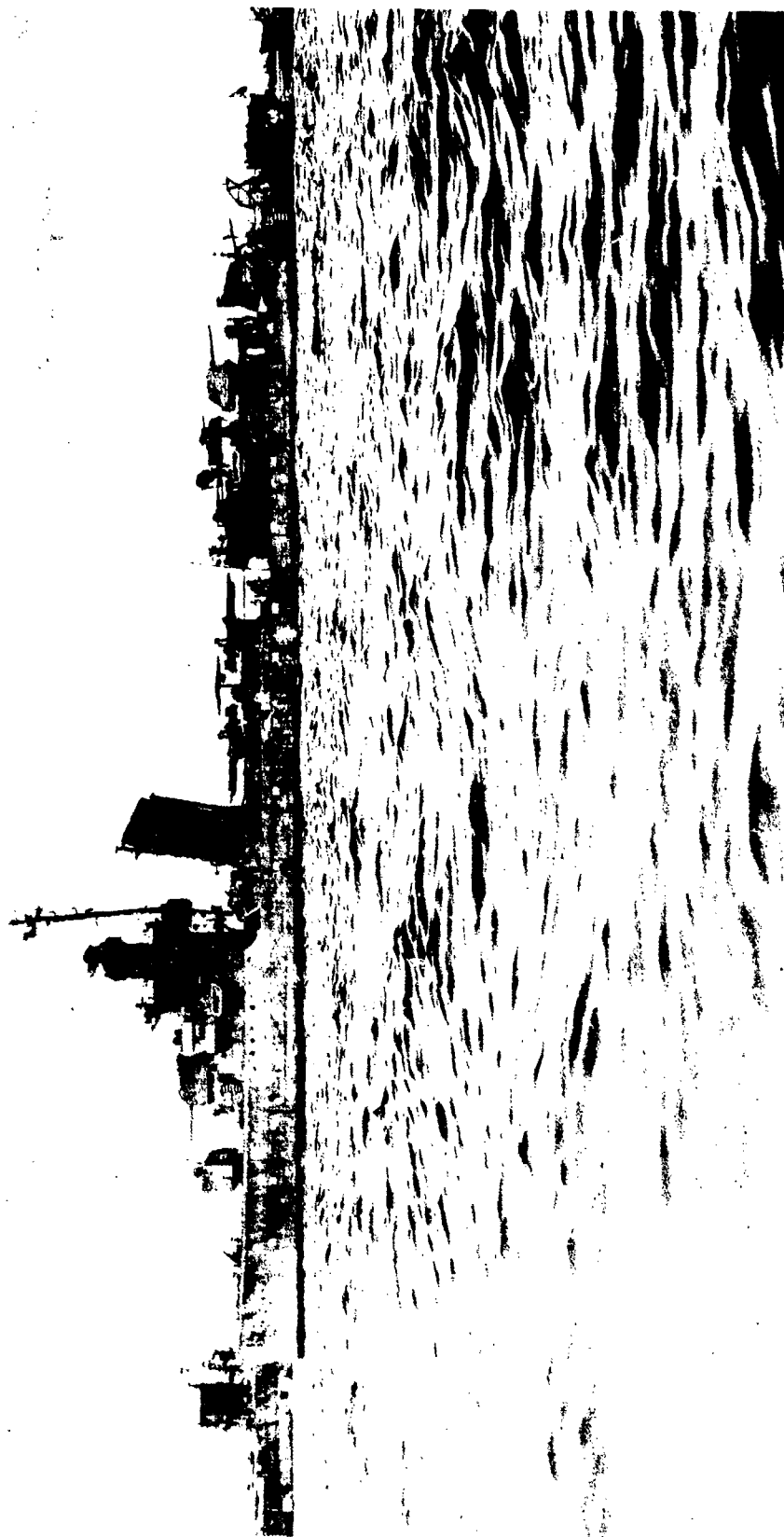
AB-CR-227-290-37. Port bow after Test B.

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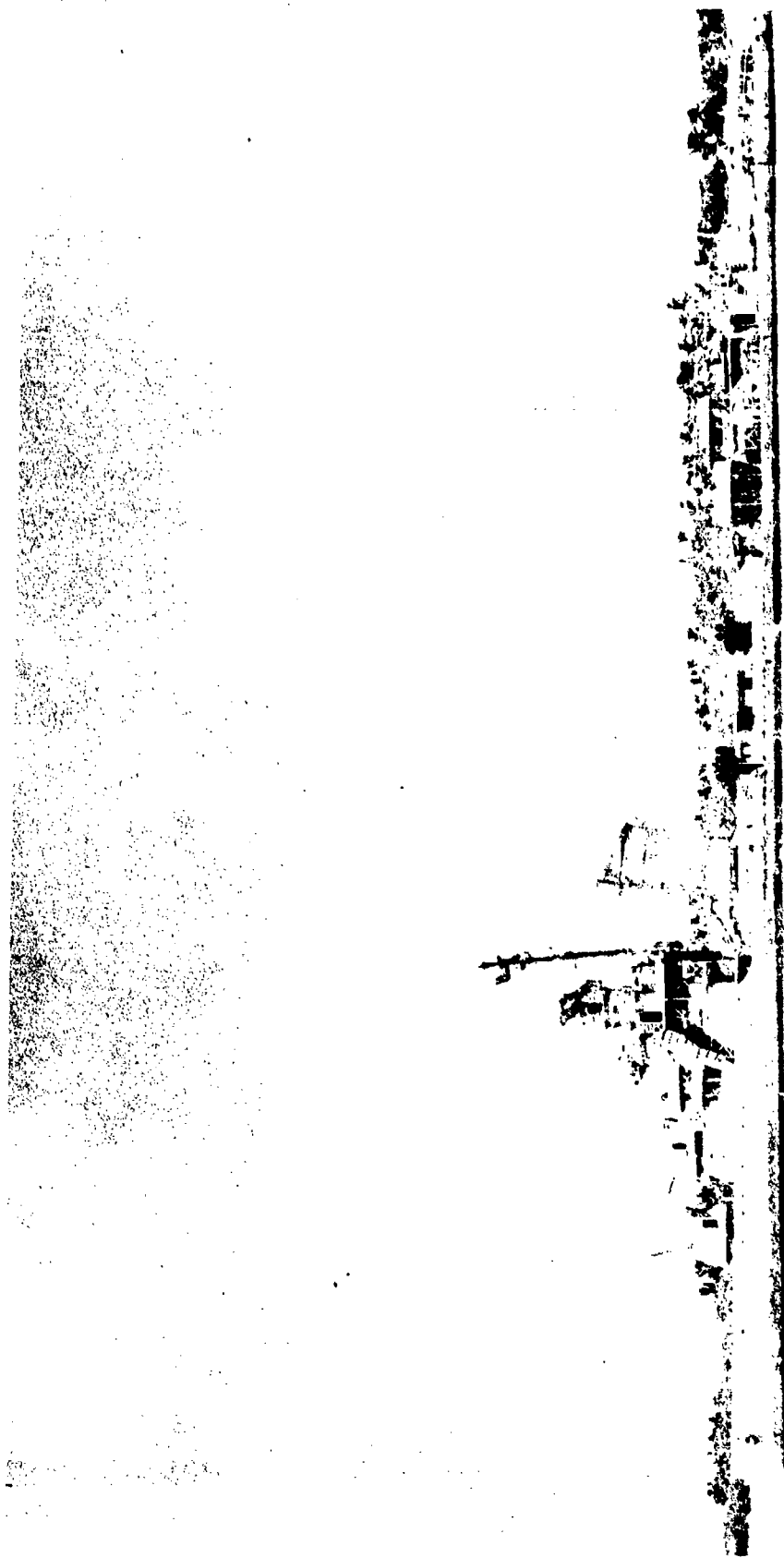
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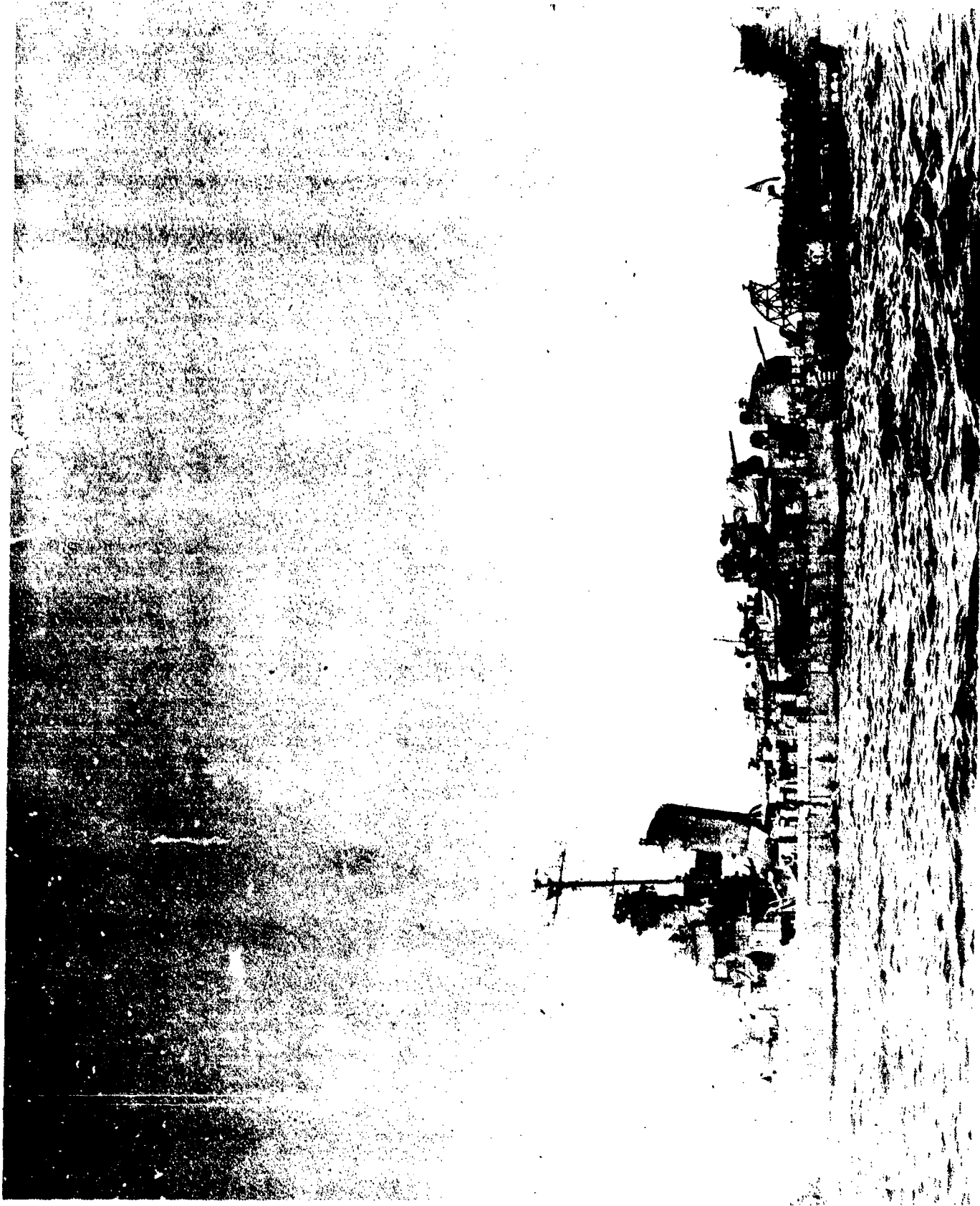
AB-CR-227-290-38. Port beam after Test B.

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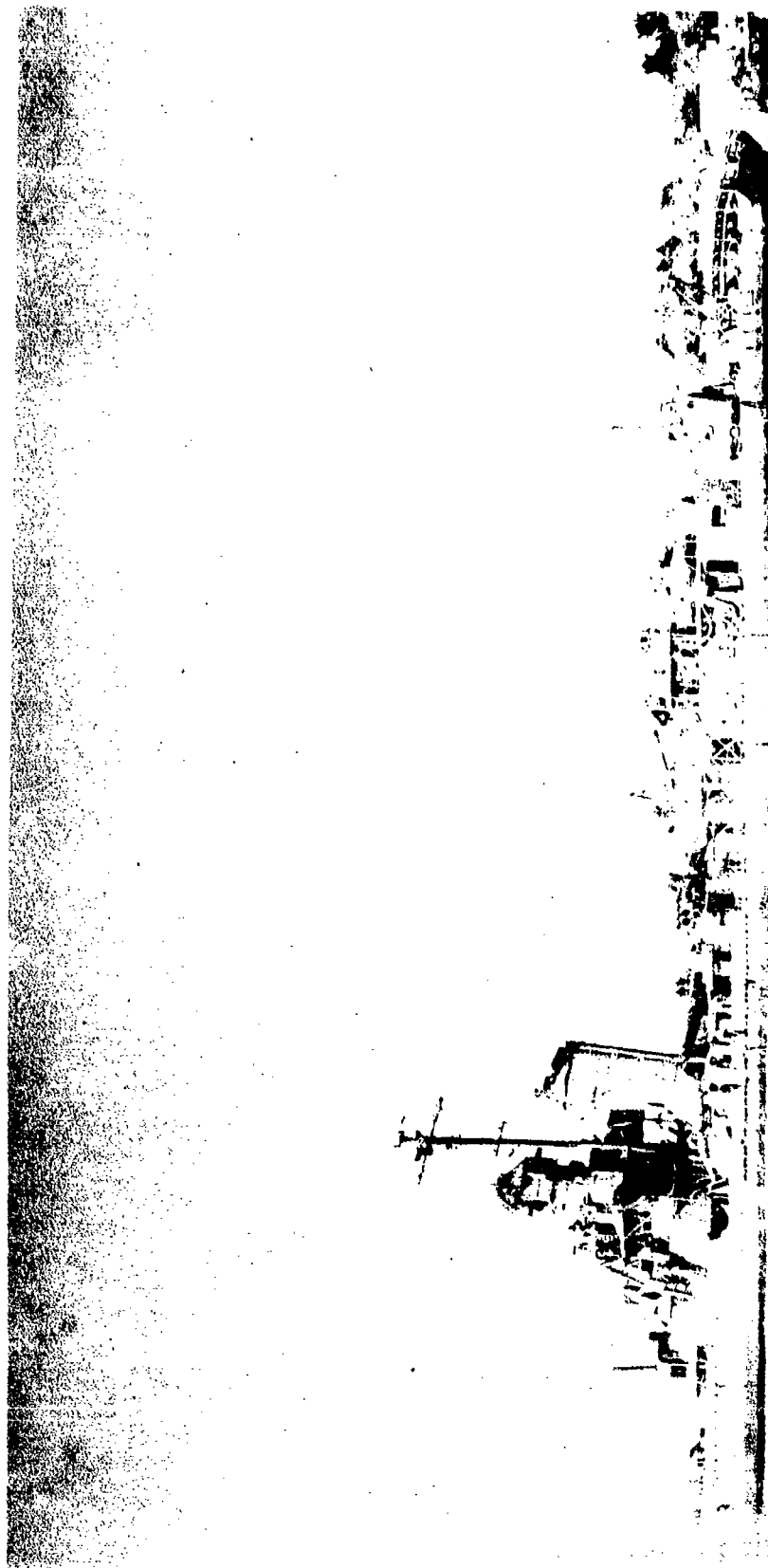
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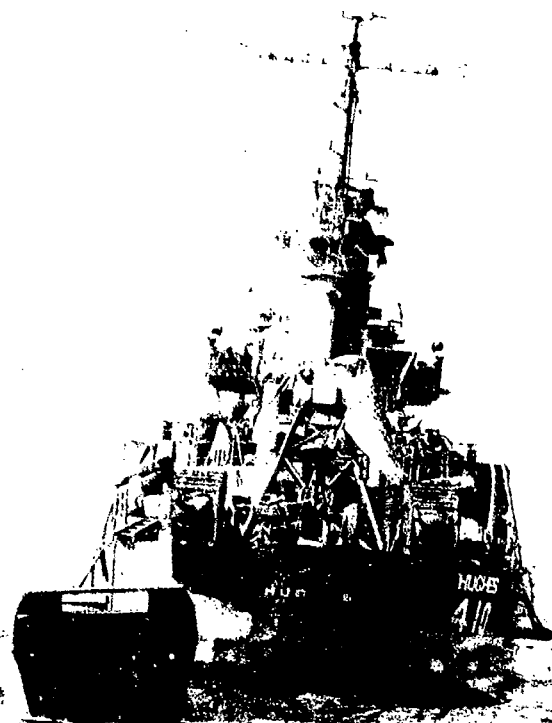
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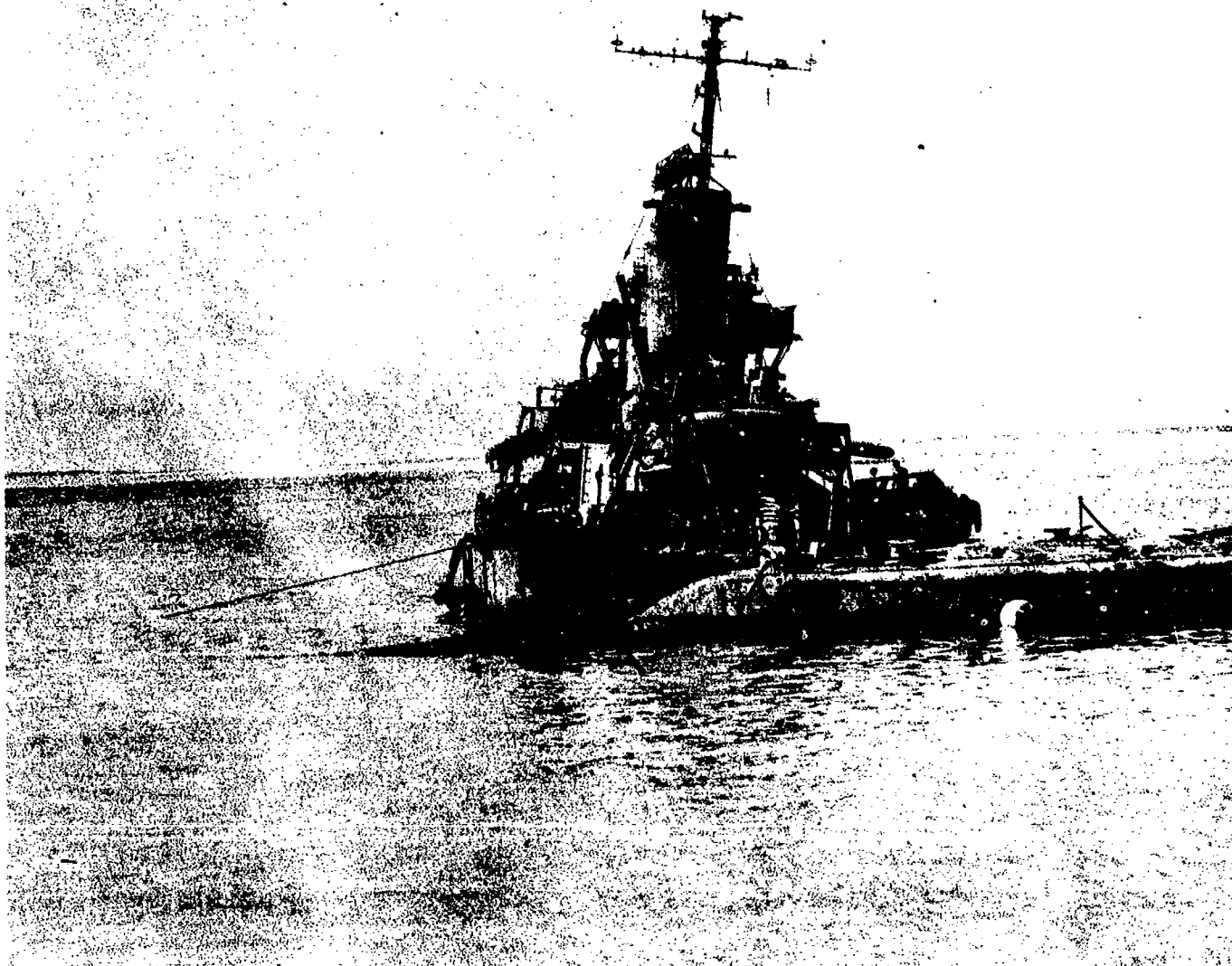
BB-CR-227-513-13. Stern before Test B.

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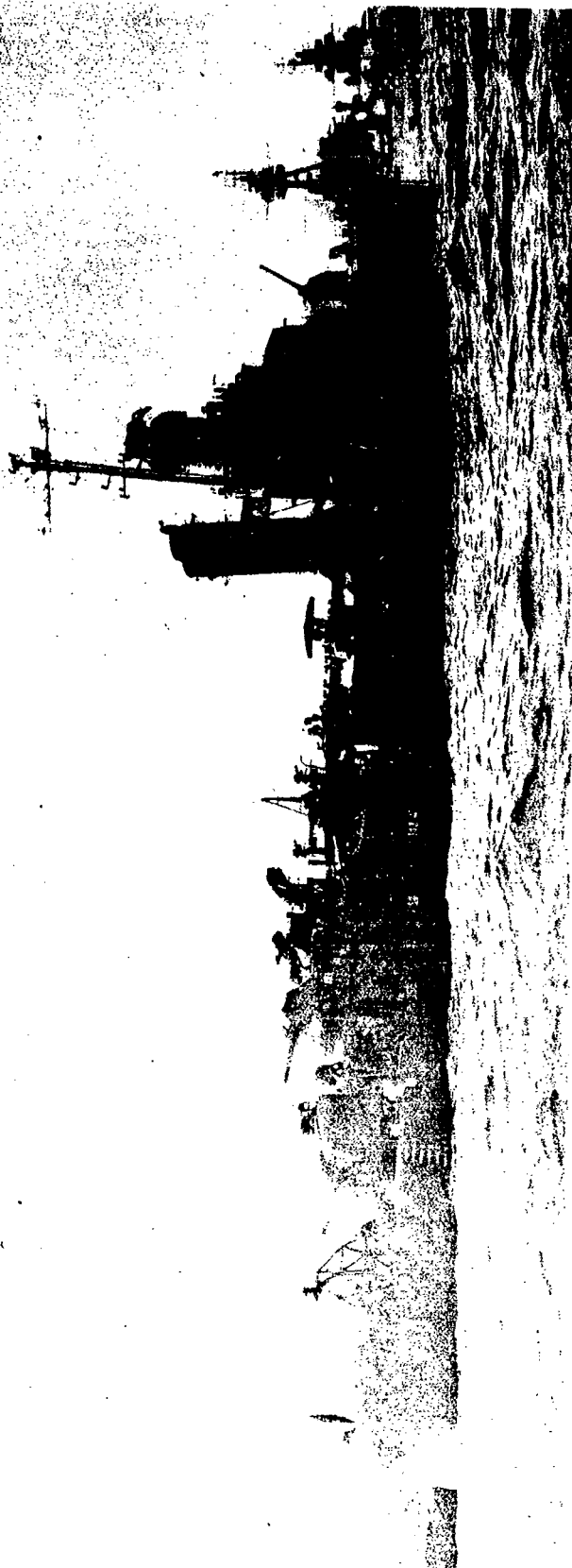
AB-CR-227-290-32. Stern after Test B.

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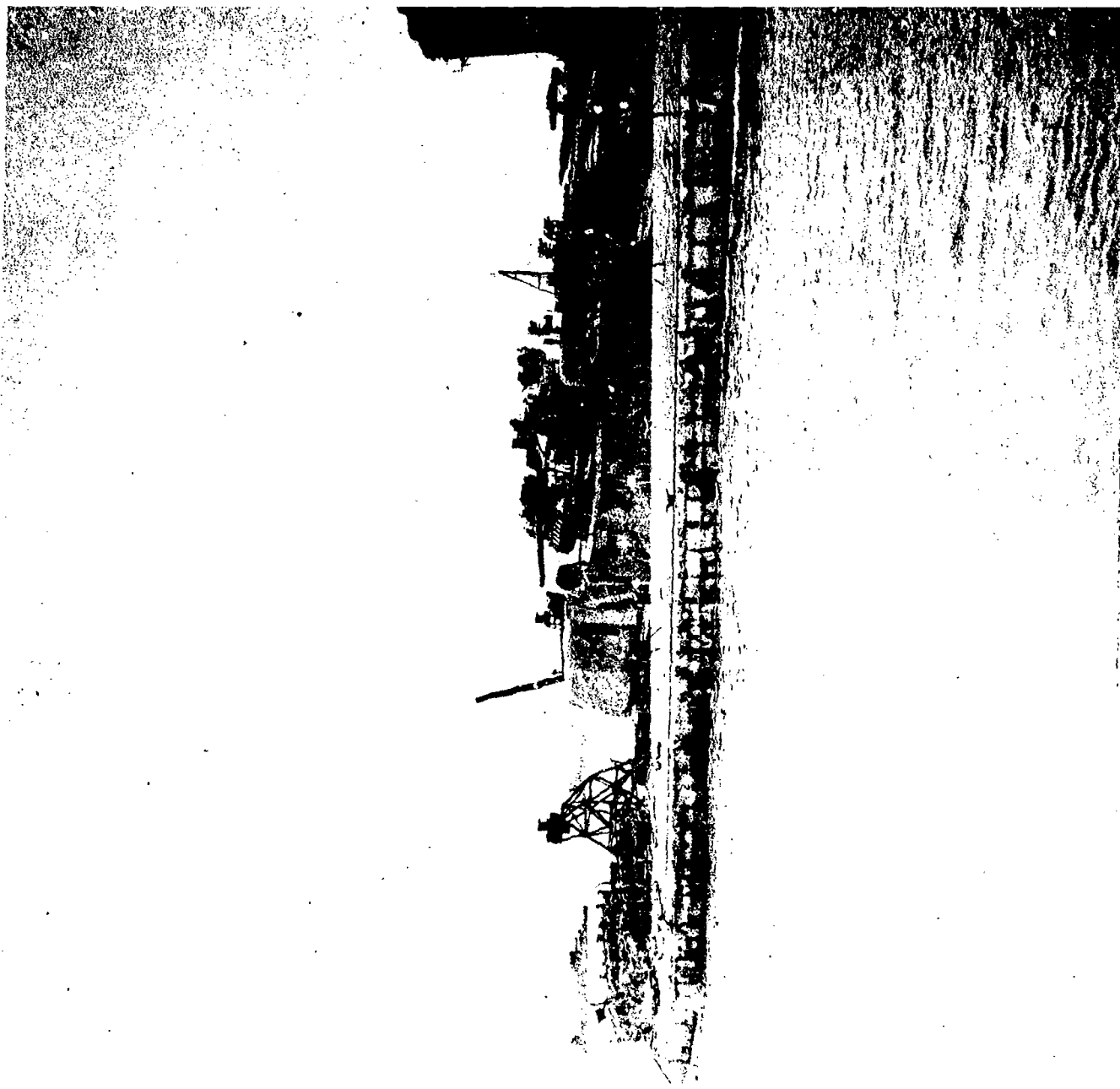
BB-CR-227-513-12. Starboard quarter before Test B.

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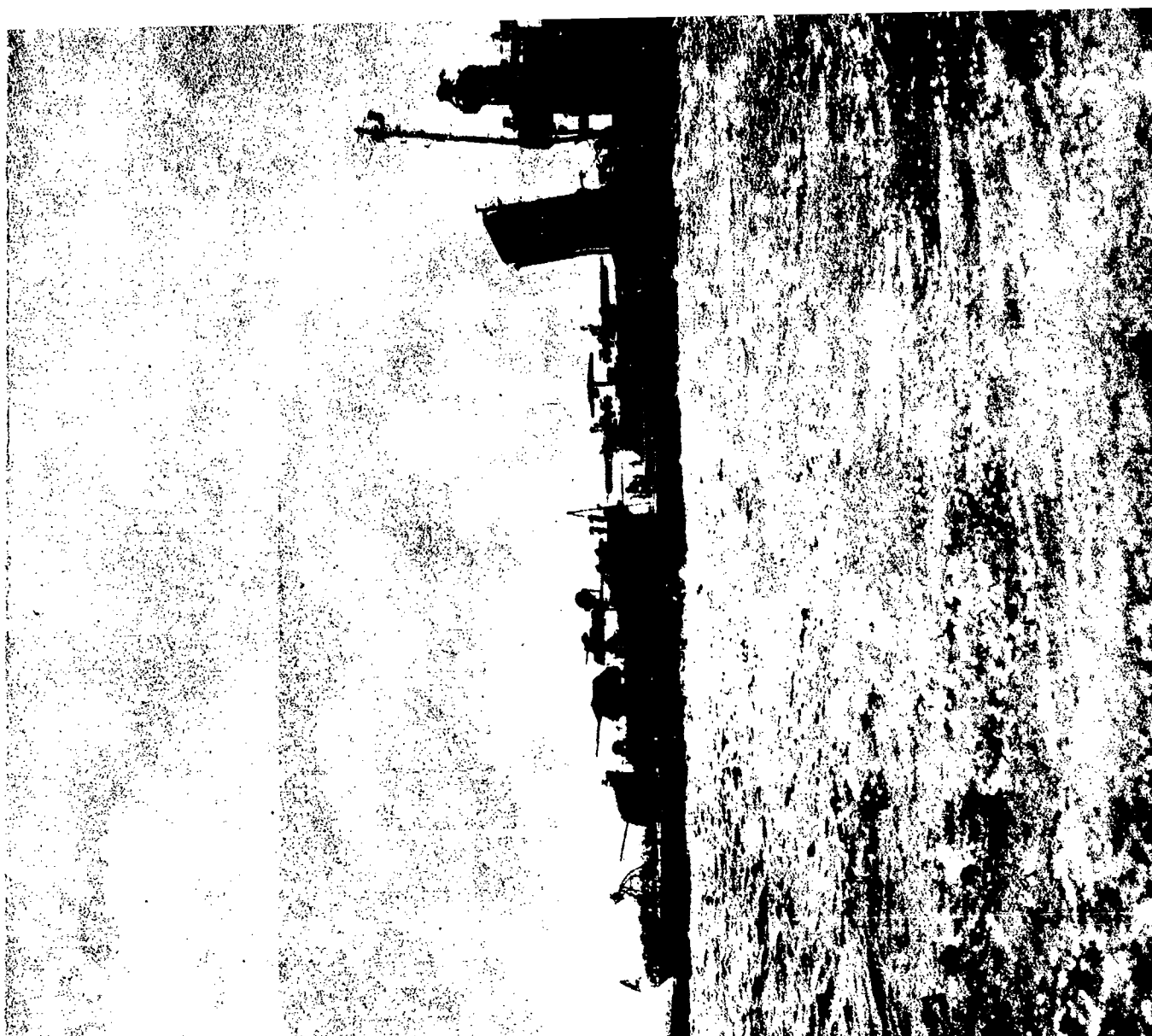
AB-CR-227-290-33. Starboard quarter after Test B.

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BB-CR-227-513-11. Starboard beam before Test B.

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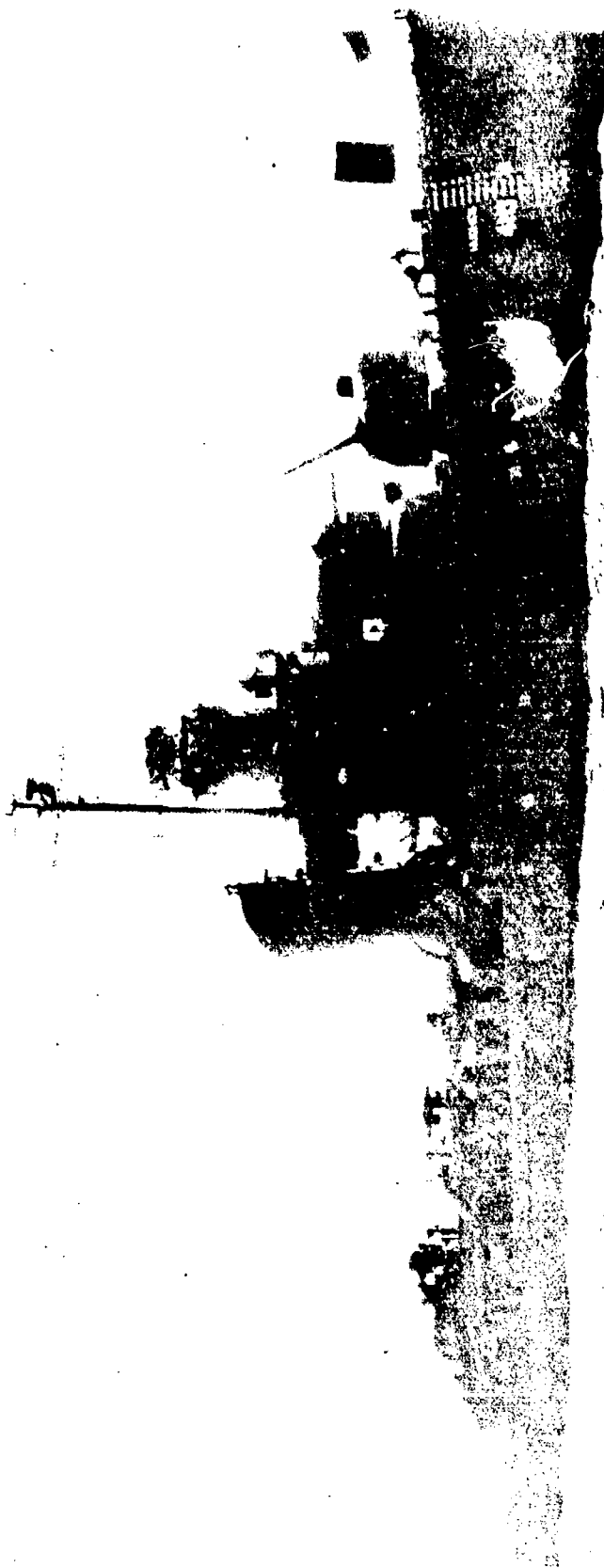
AB-CR-227-290-34. Starboard beam after Test B.

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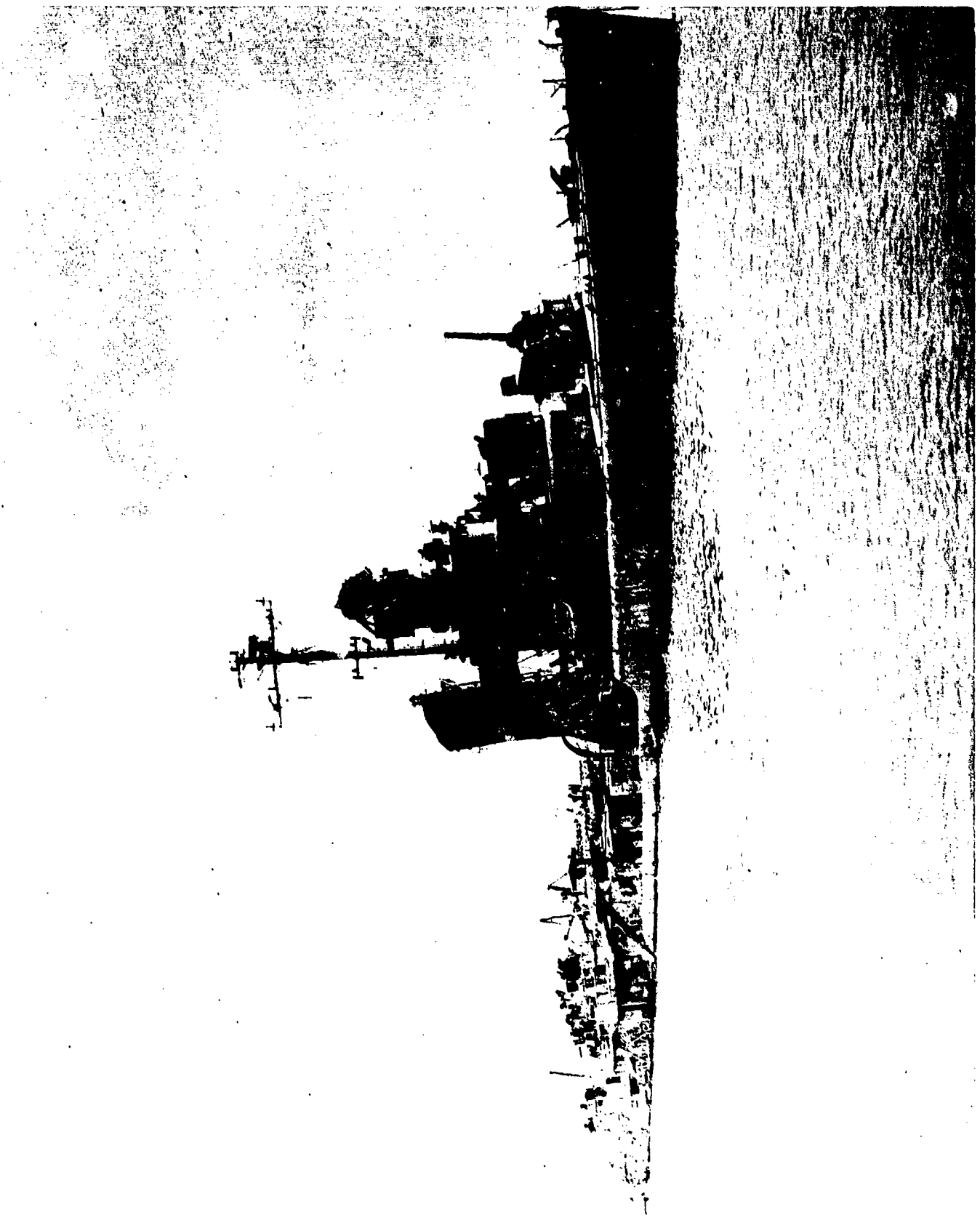
BB-CR-227-513-10. Starboard bow before Test B.

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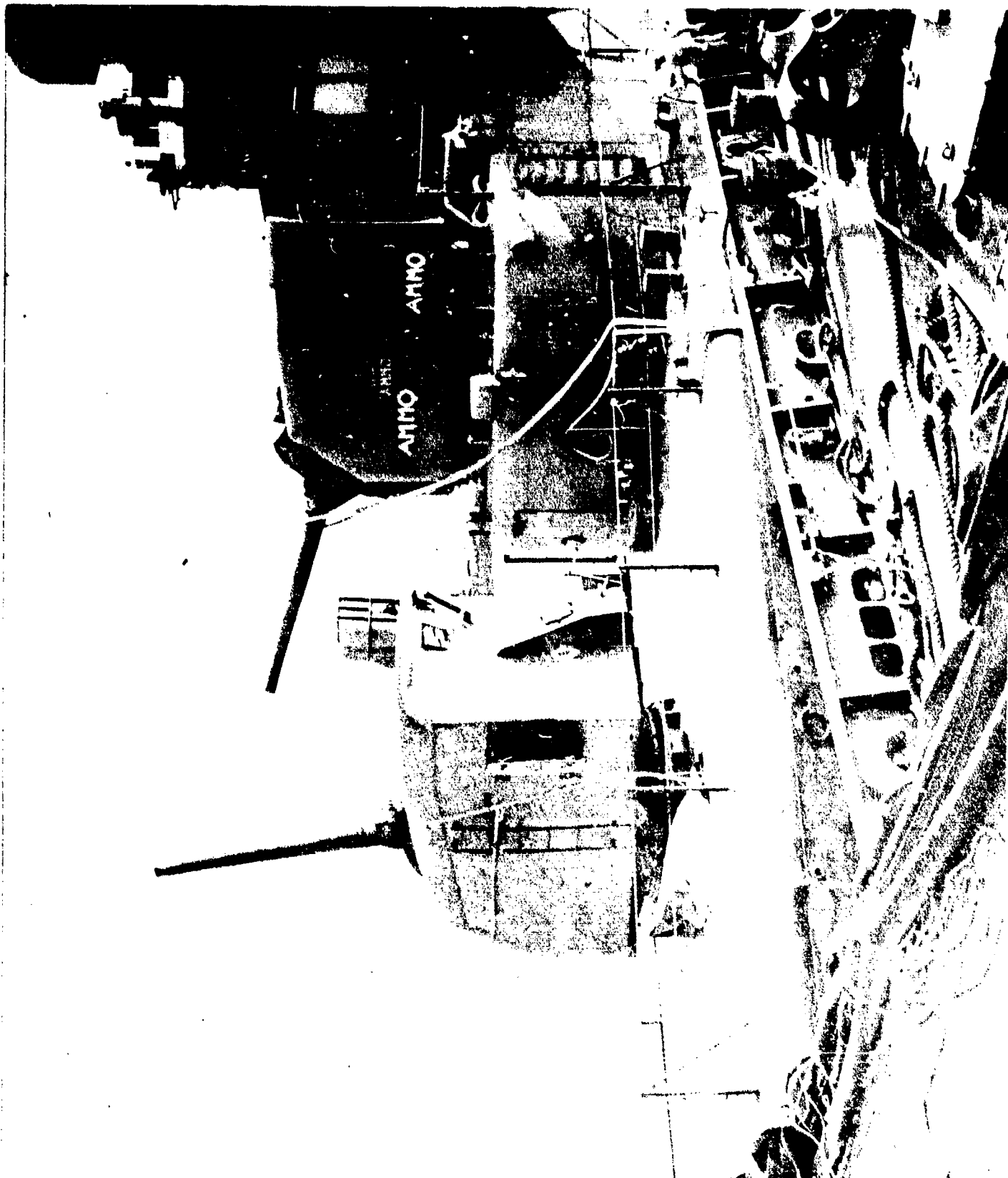
AB-CR-227-290-35. Starboard bow after test B.

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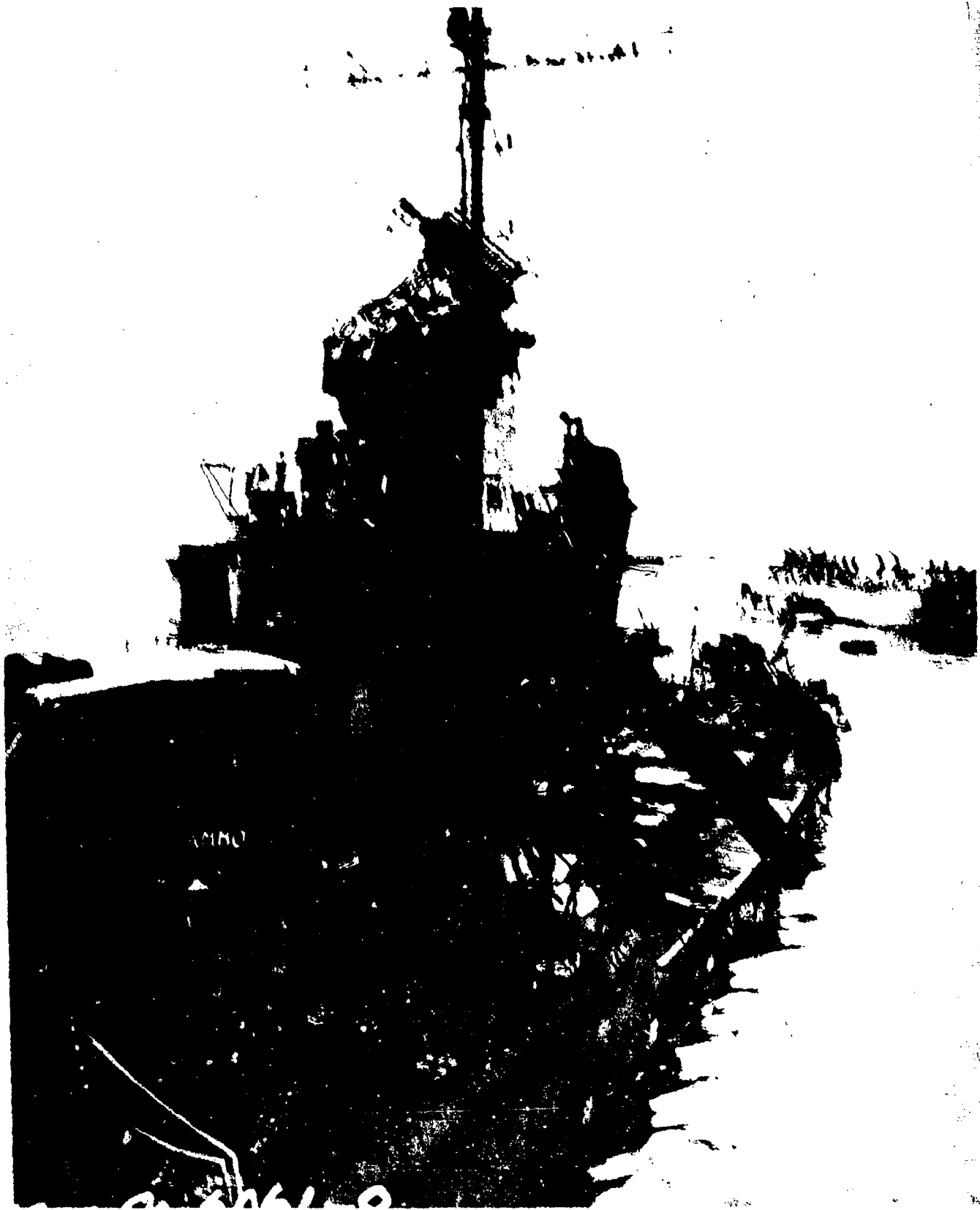
AB-CR-80-2062-1. Port sides of No. 1 and No. 2 mounts.

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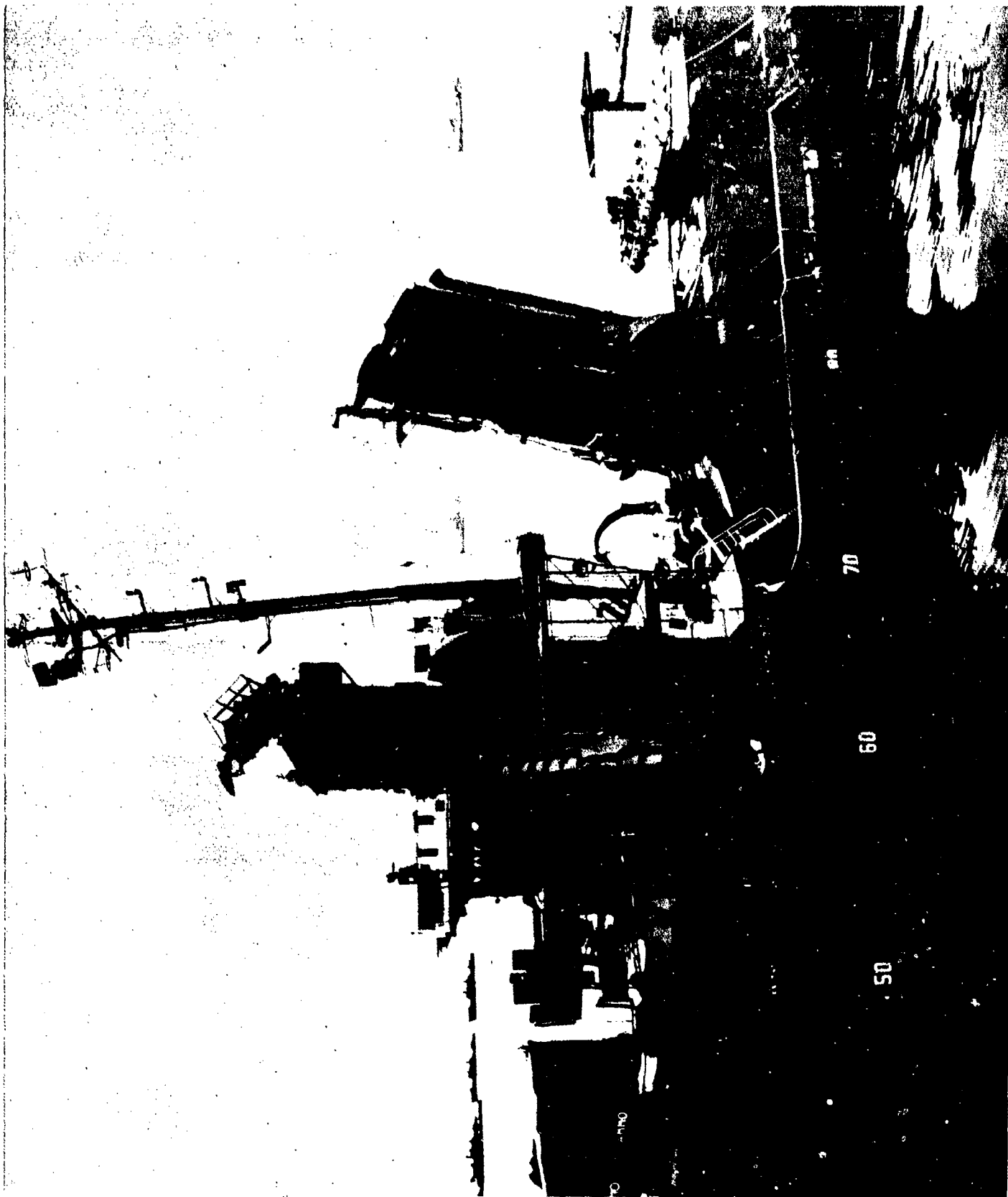
AB-CR-80-2061-8. Forward face of superstructure from port bow before beaching.

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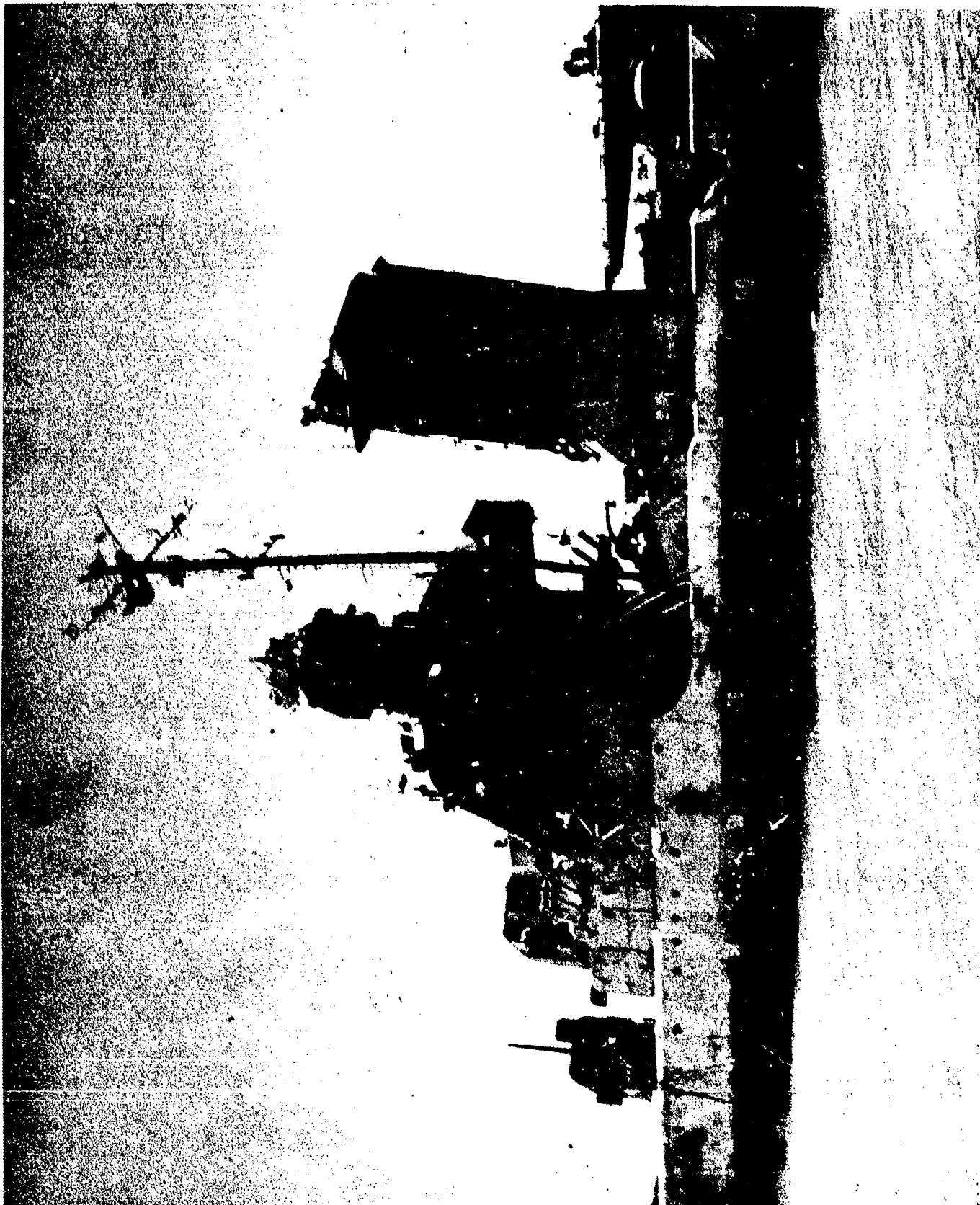
AB-CR-80-2061-7. View of superstructure from port side, amidships before beaching.

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AB-CR-59-2996-10. View of forward superstructure from port side, amidships, after beaching.

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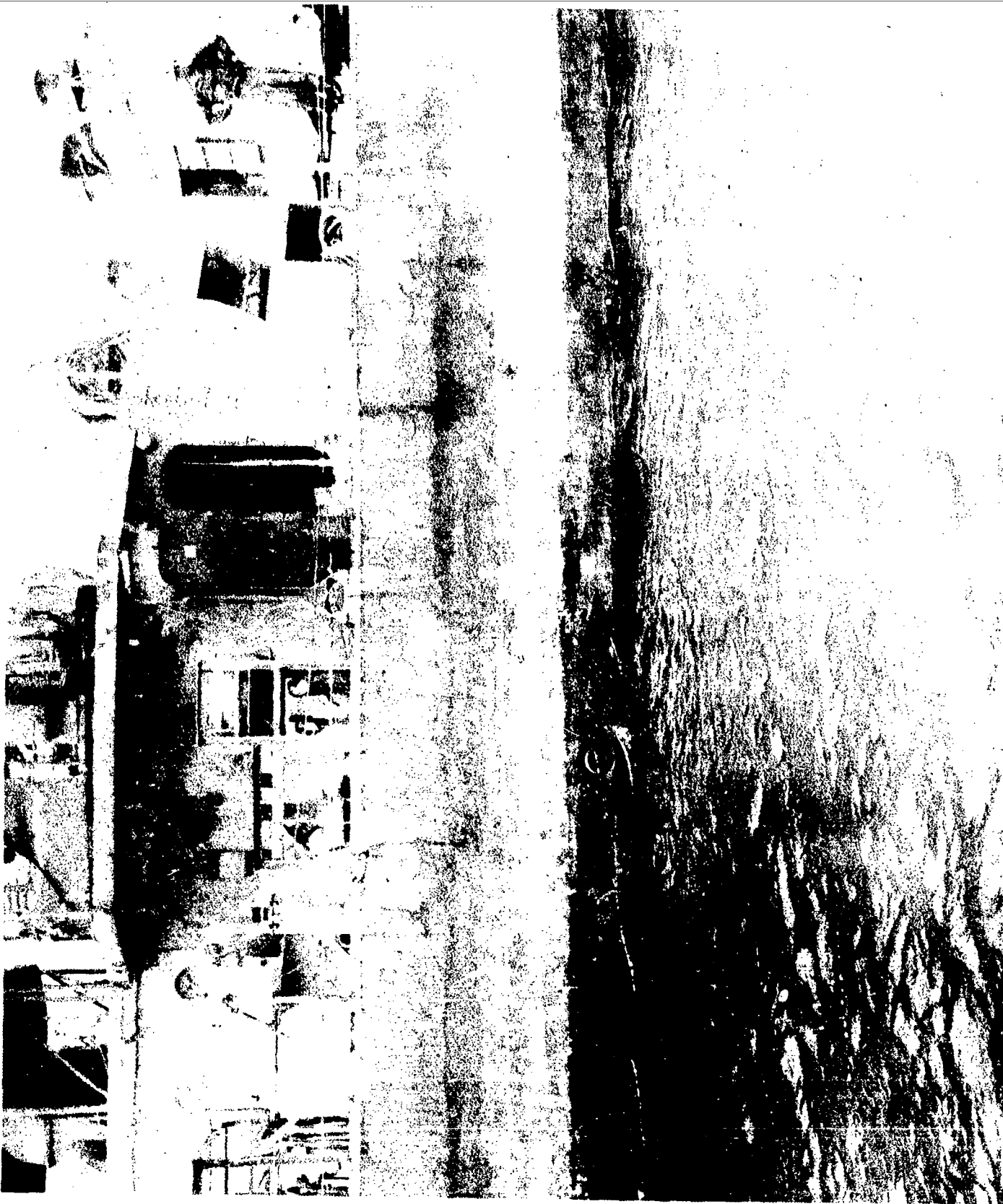
AB-CR-80-2061-6. After superstructure from port beam after beaching.

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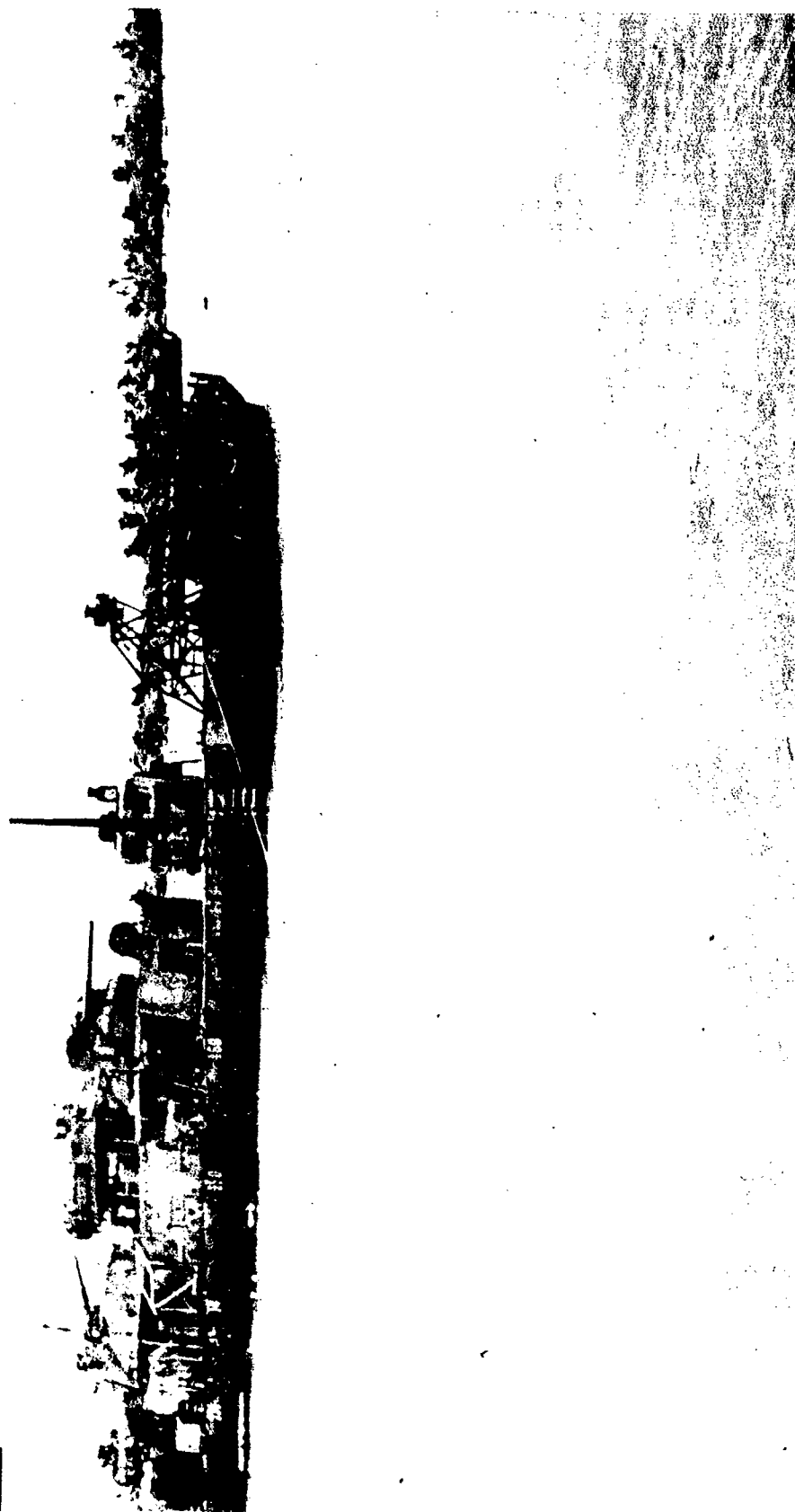
AB-CR-100-4211-8. Port shell area, frames 145-163.

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AB CR 59-2996 -1

AB-CR-59-2996-8. View of stern, after grounding, from off port quarter.

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AB-CR-79-2974-5. View of ship after grounding from off port quarter.

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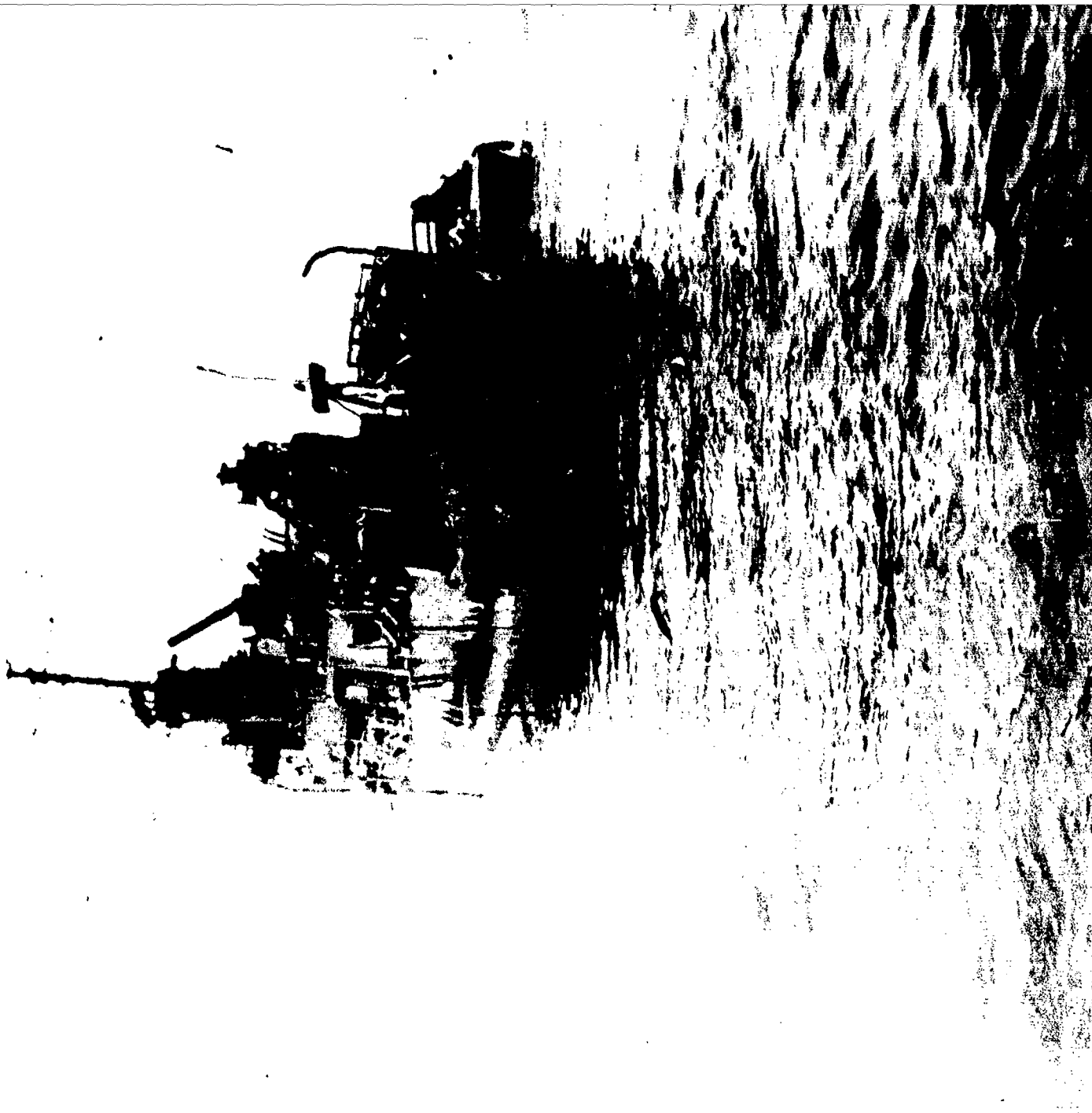
AB-CR-80-2062-6. View of superstructure from stern to port, during beaching operations.

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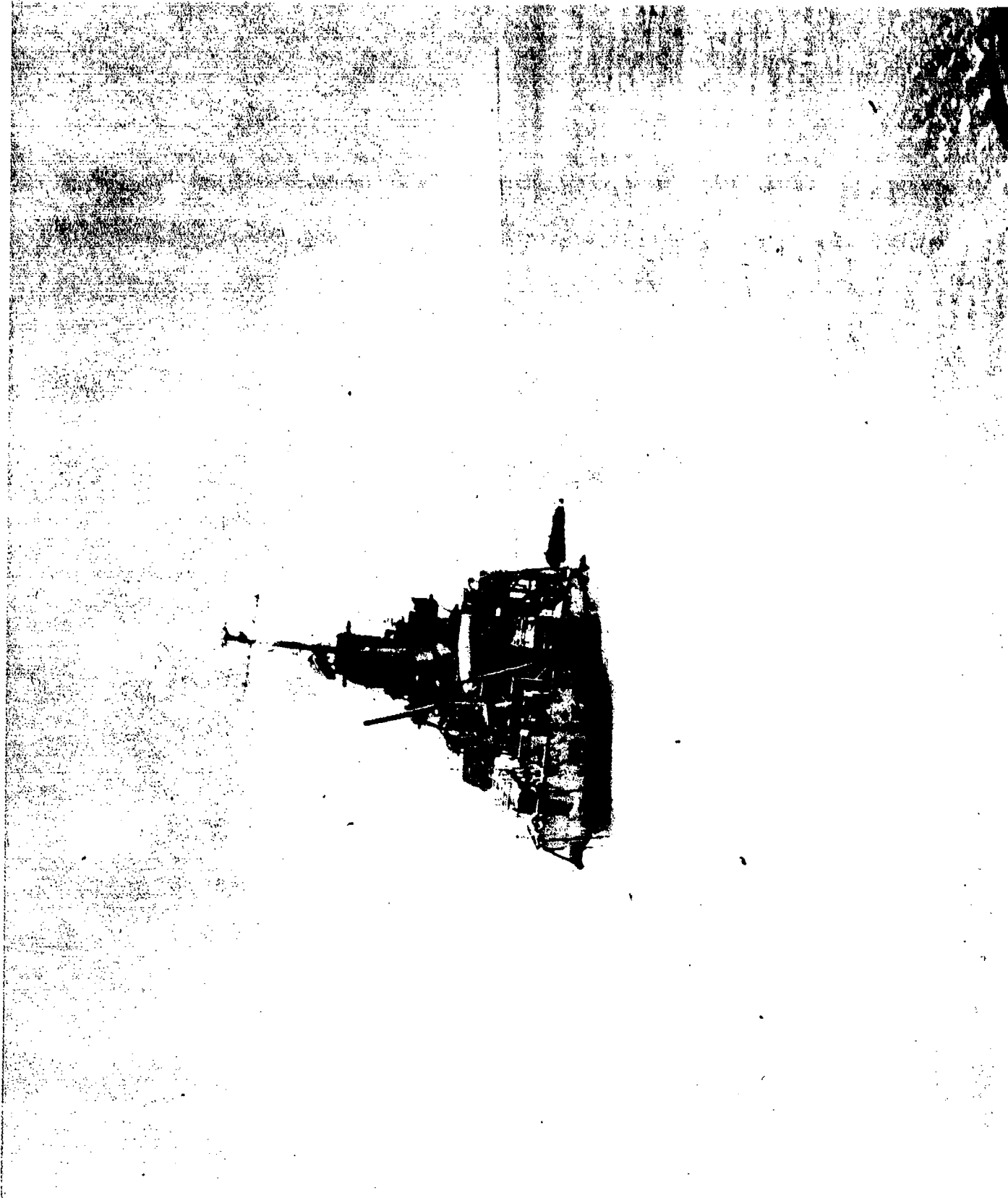
AB-CR-100-4211-9. View showing damage to transom and after portion of port shell.

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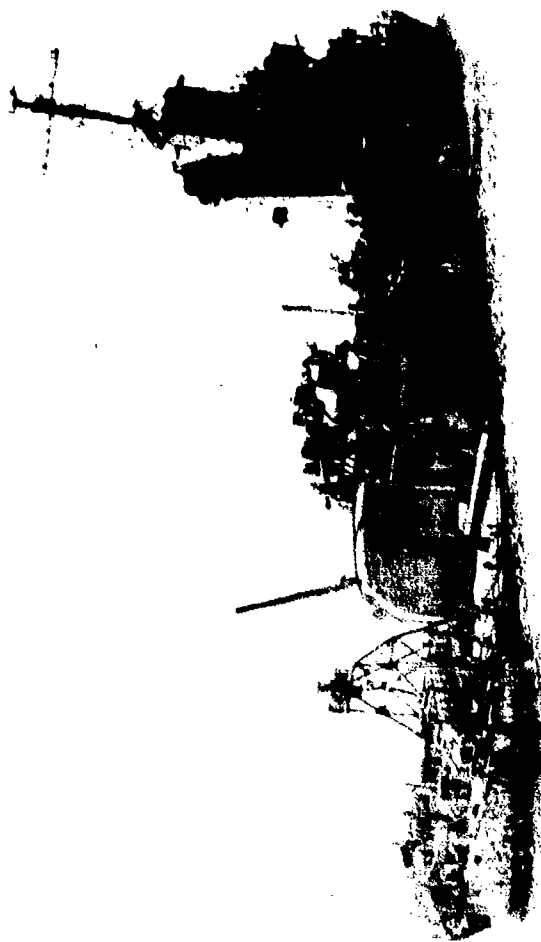
AB-CR-59-2996-7. View of ship after grounding, from dead astern.

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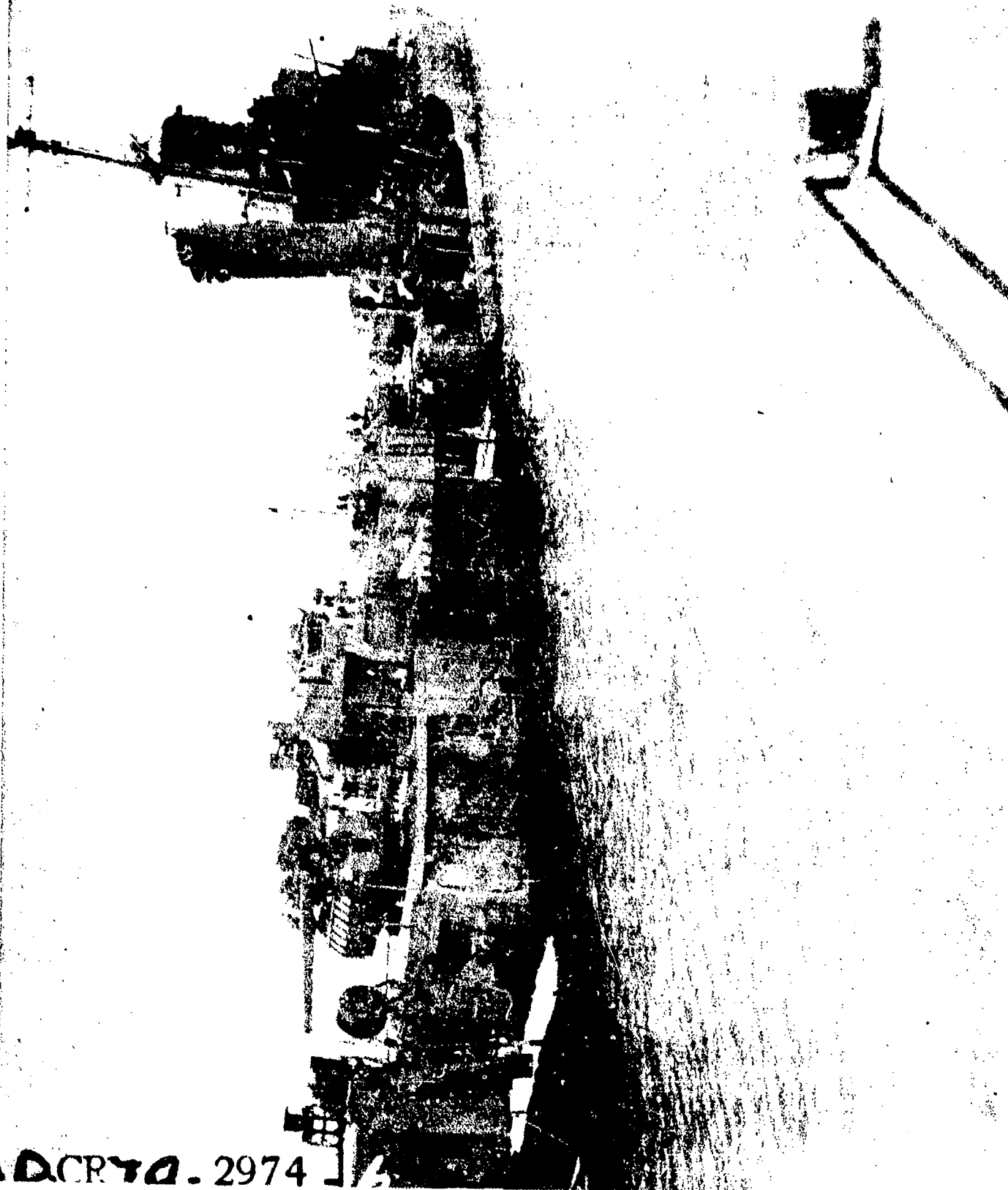
AB-CR-79-2974-3. View of ship after being grounded, from off starboard quarter.

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ABCR-79-2974-6

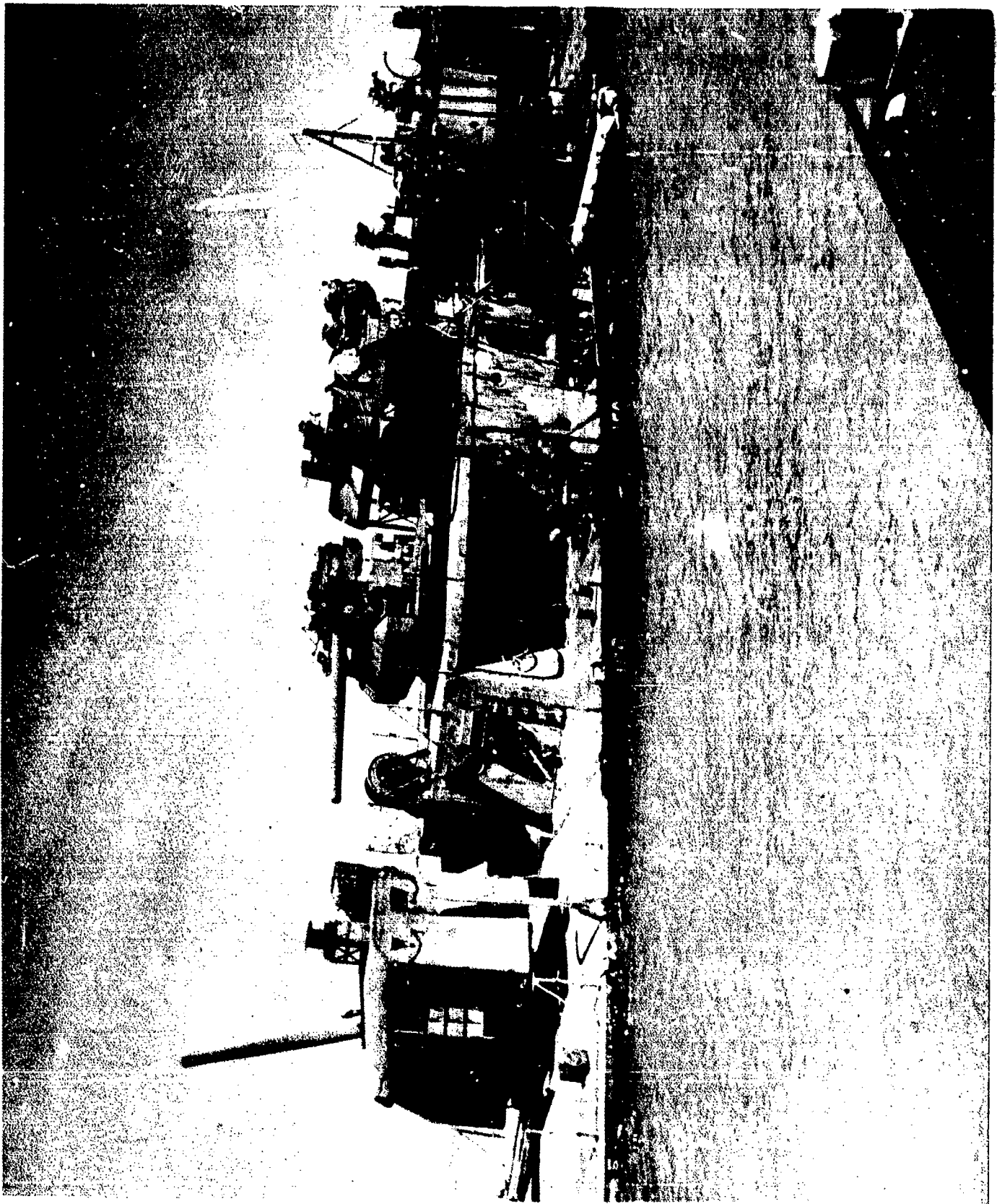
AB-CR-79-2974-6. View of after superstructure from starboard quarter.

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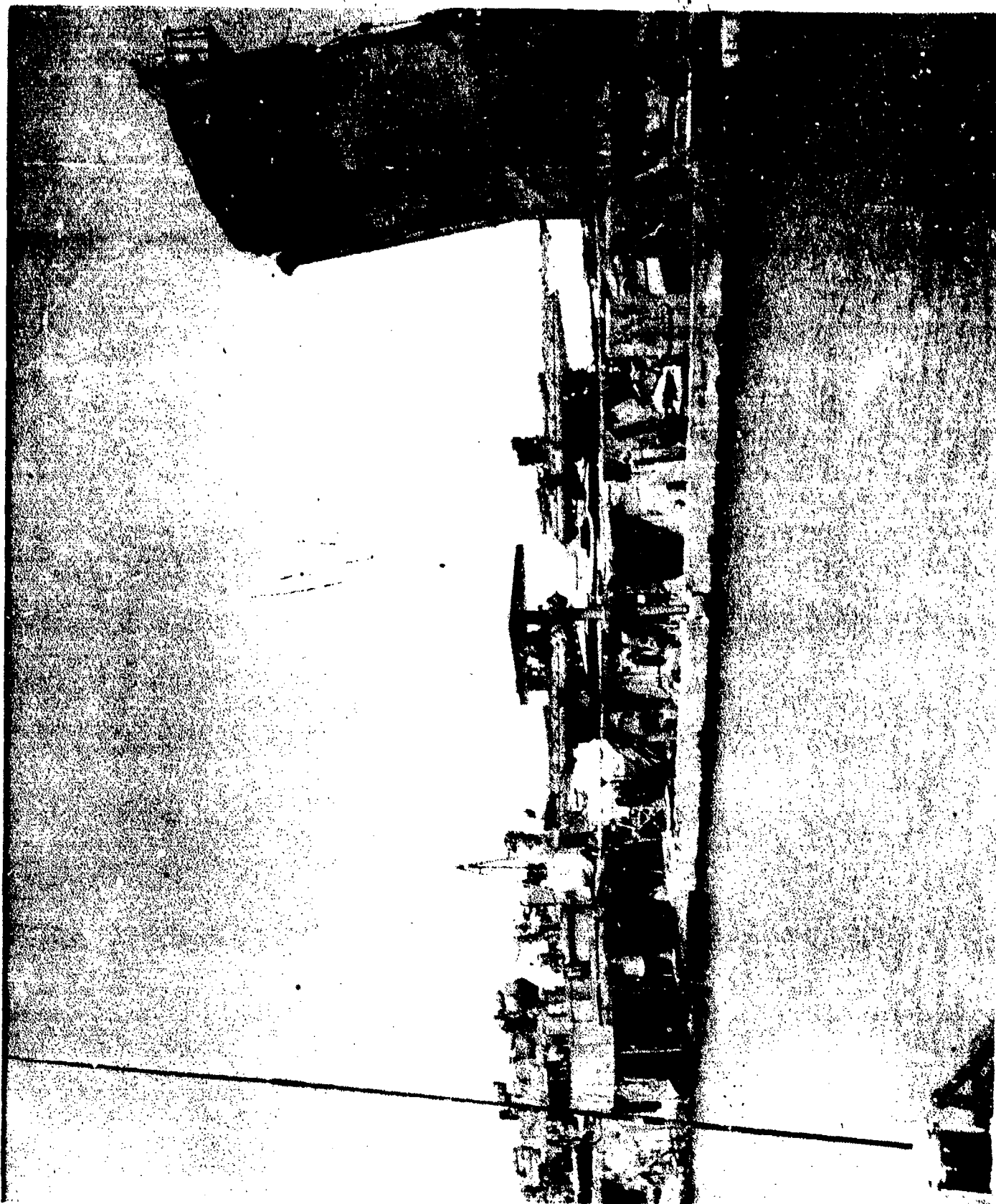
AB-CR-59-2996-3. View of after superstructure from starboard quarter.

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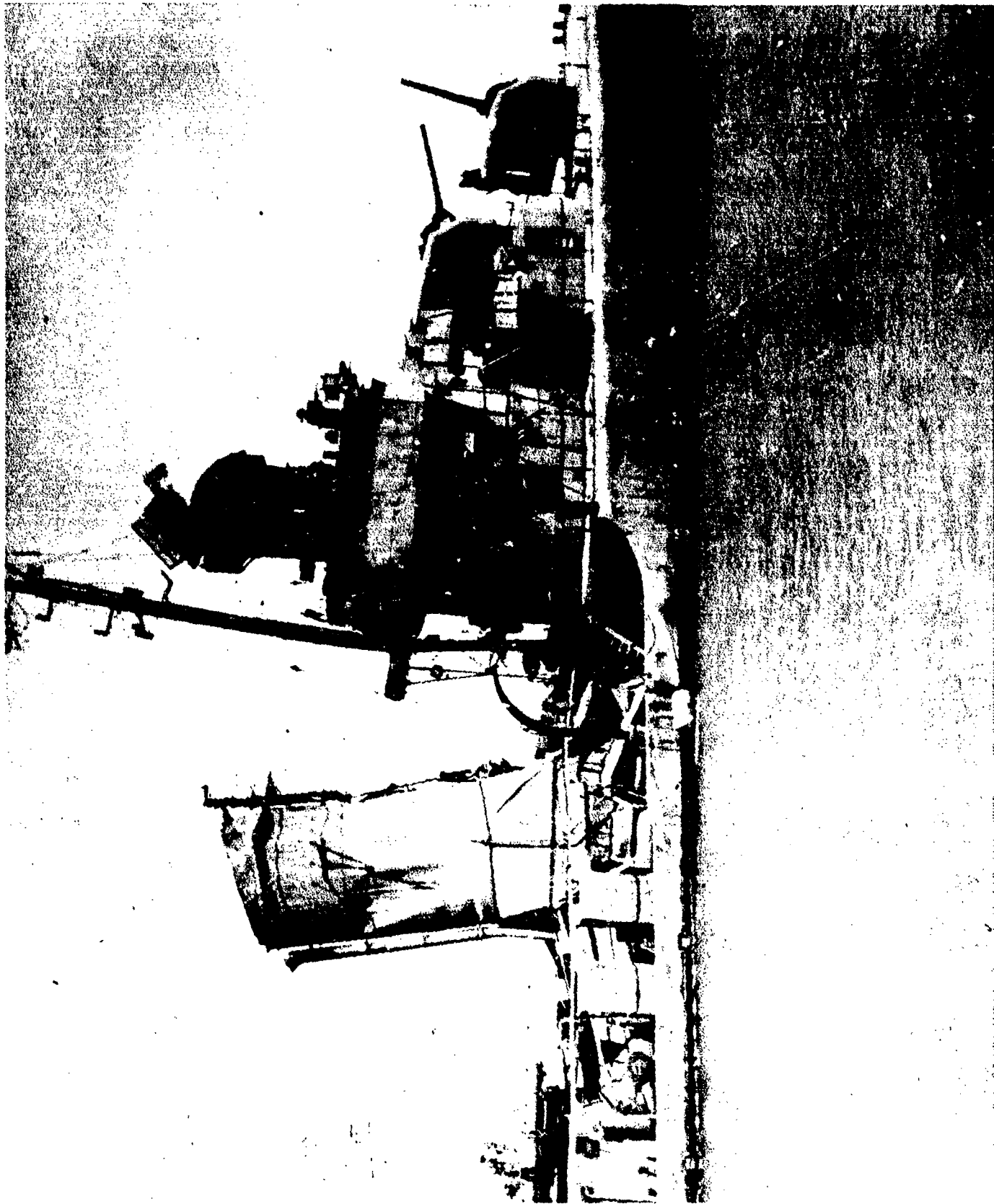
AB-CR-59-2996-6. View of superstructure amidships from starboard side.

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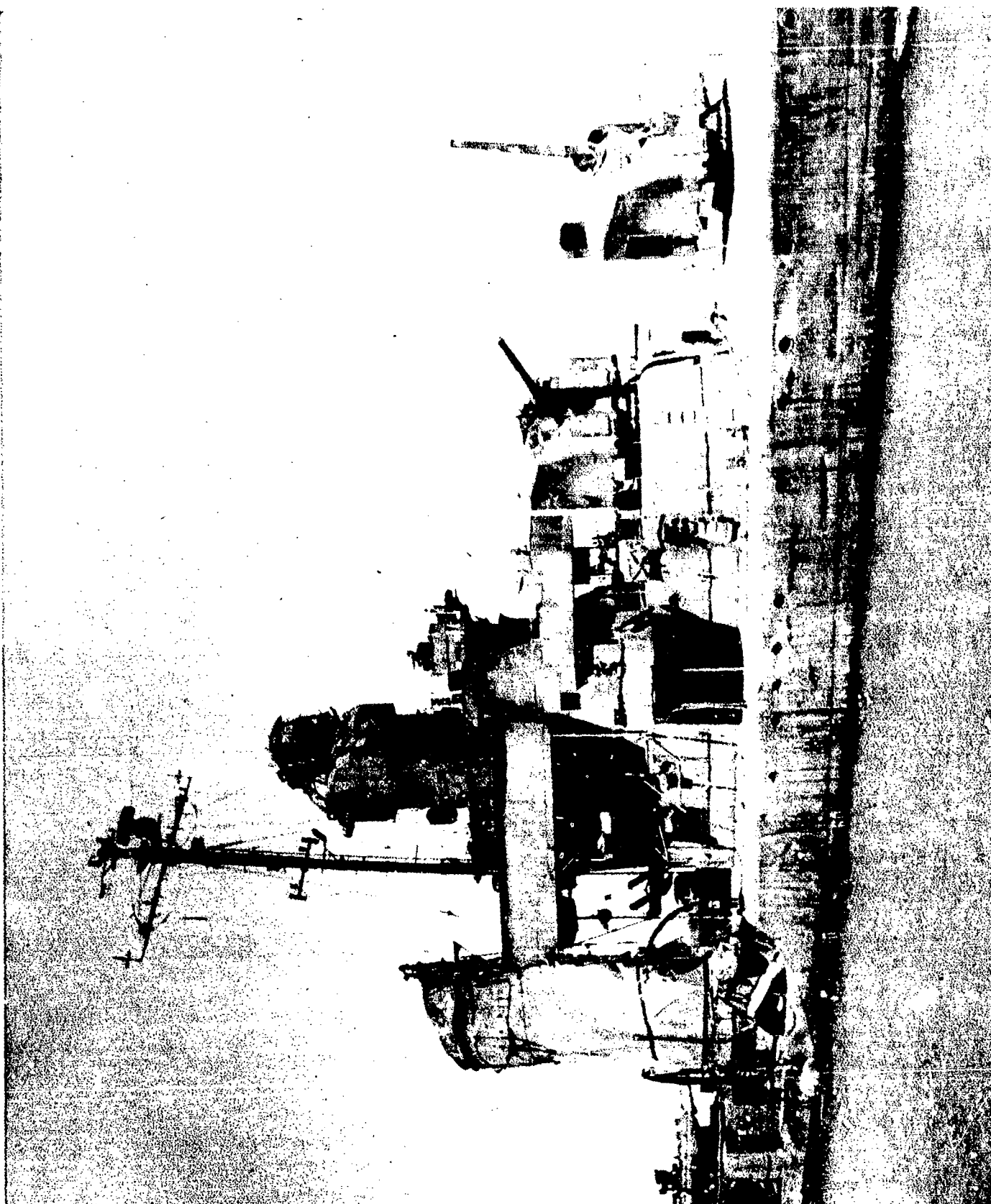
AB-CR-59-2996-4. View of forward superstructure from starboard side amidships.

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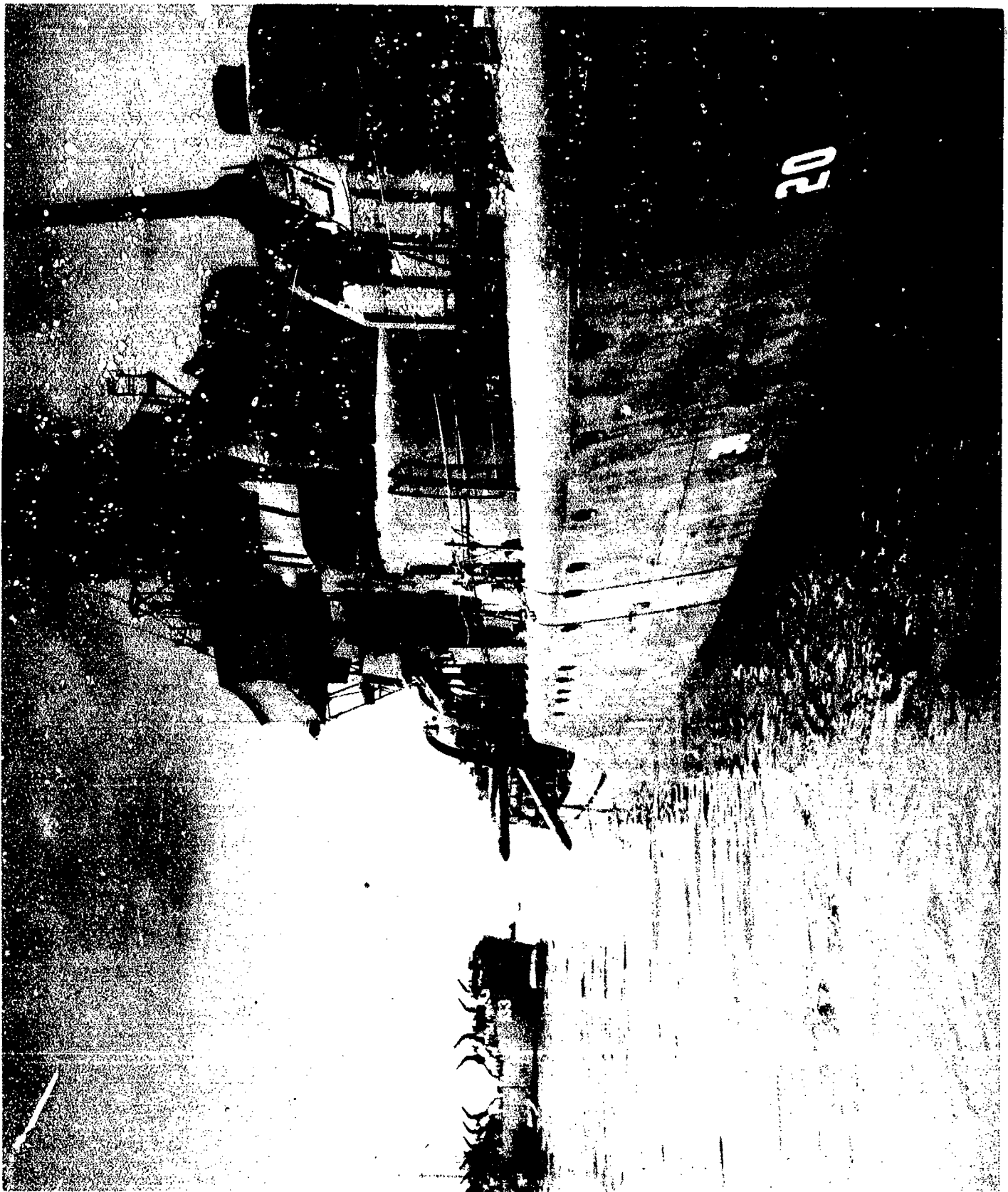
AB-CR-59-2996-5. View of superstructure from off starboard bow.

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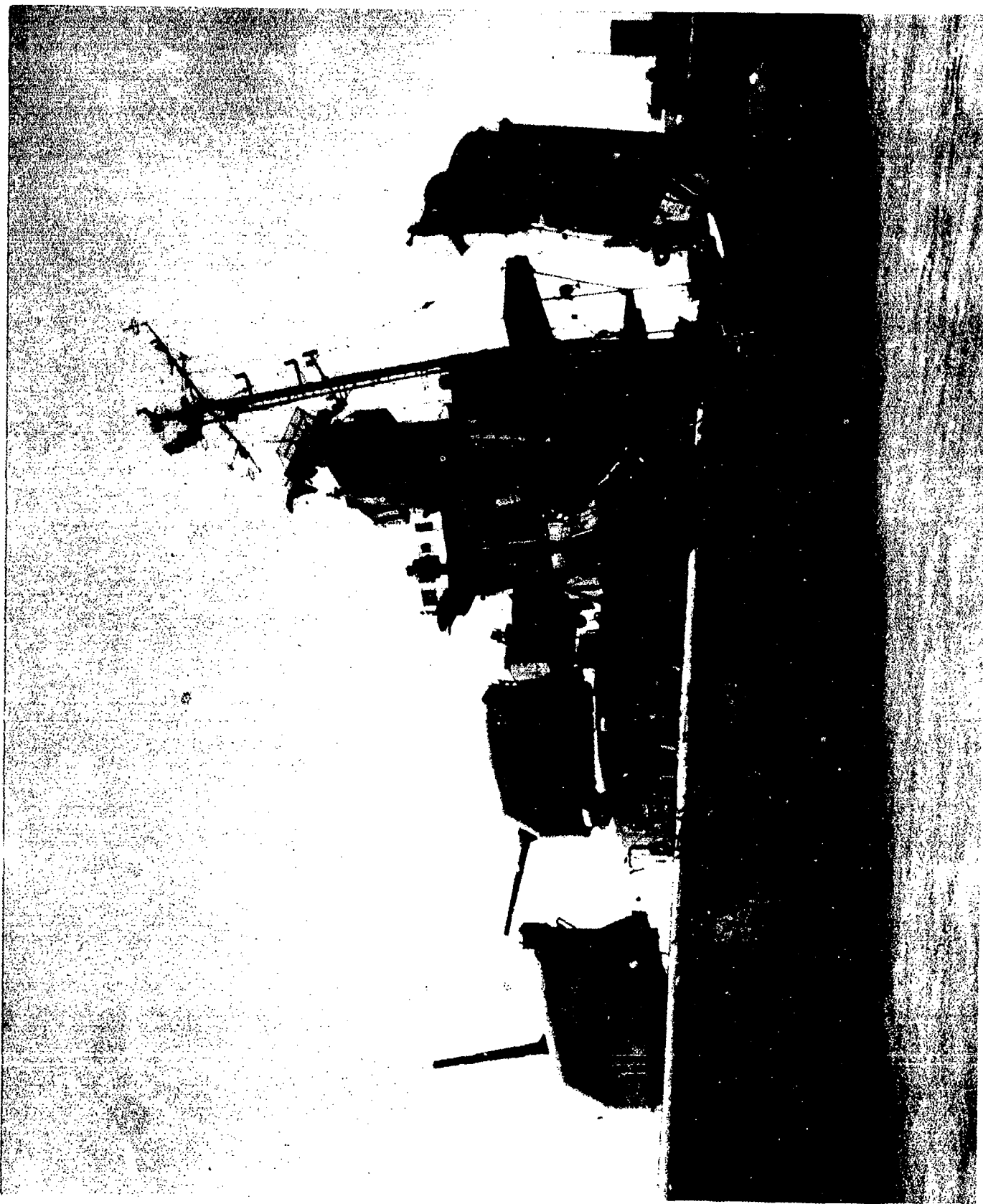
AB-CR-80-2061-10. Looking aft from off starboard bow showing torpedoes hanging out of the after mounts. Before beaching.

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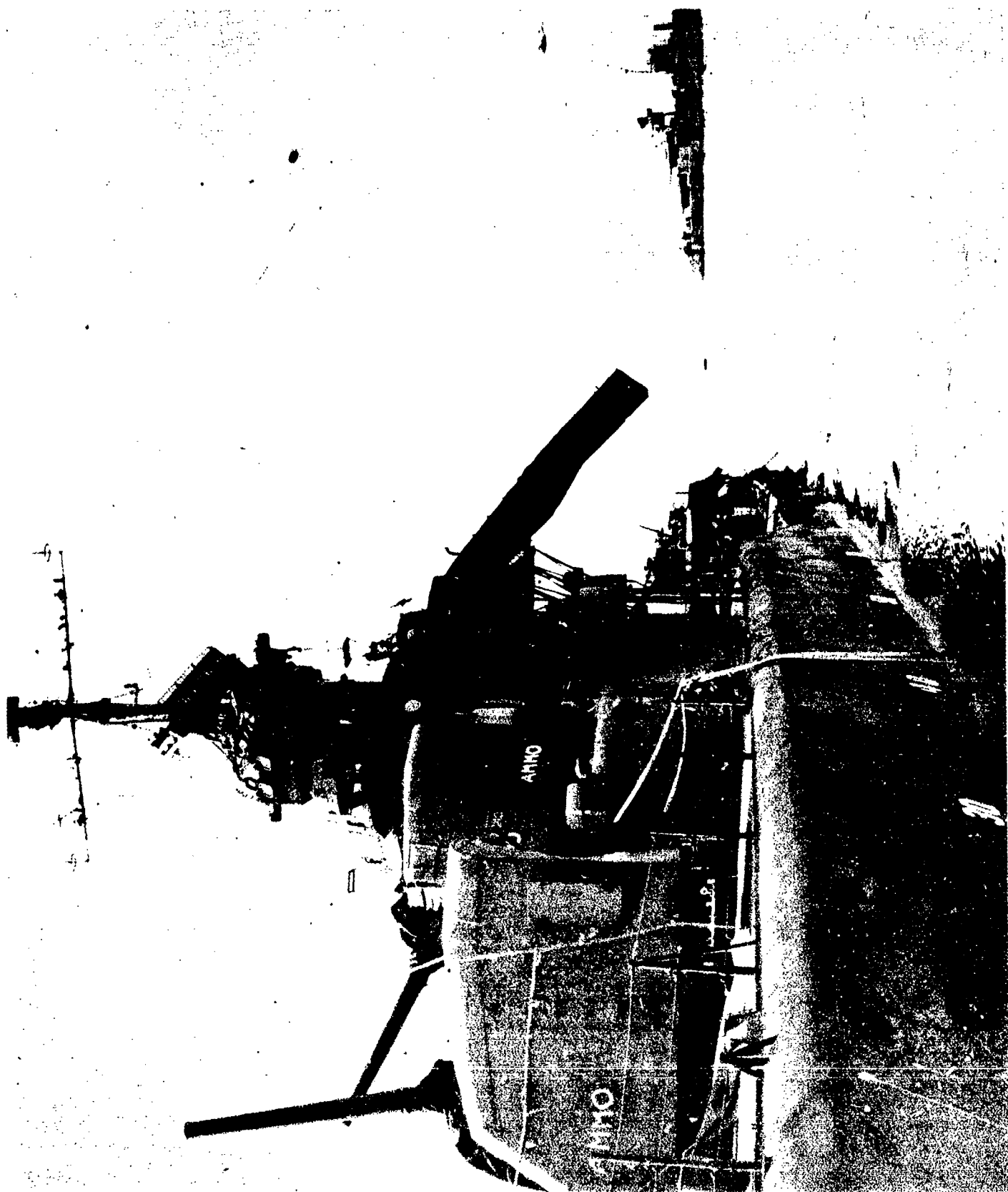
AB-CR-59-2996-11. View of forward superstructure from off port bow after beaching.

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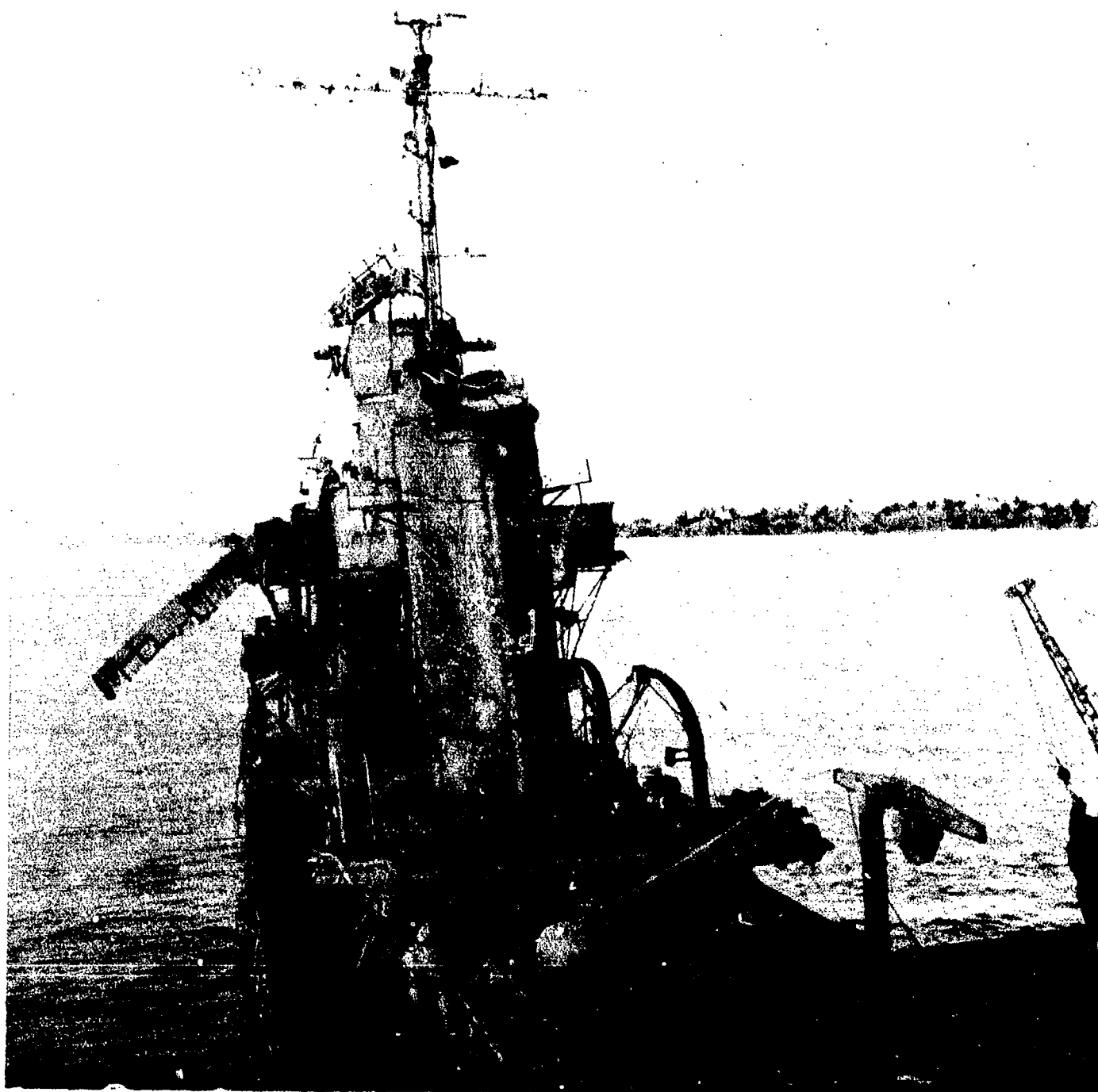
AB-CR-80-2061-9. View of superstructure from port bow. A section of the port bulwark has been torn away from the navigation bridge before beaching.

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AB-CR-80-2062-5. View of superstructure looking forward from port 40MM gun director platform.

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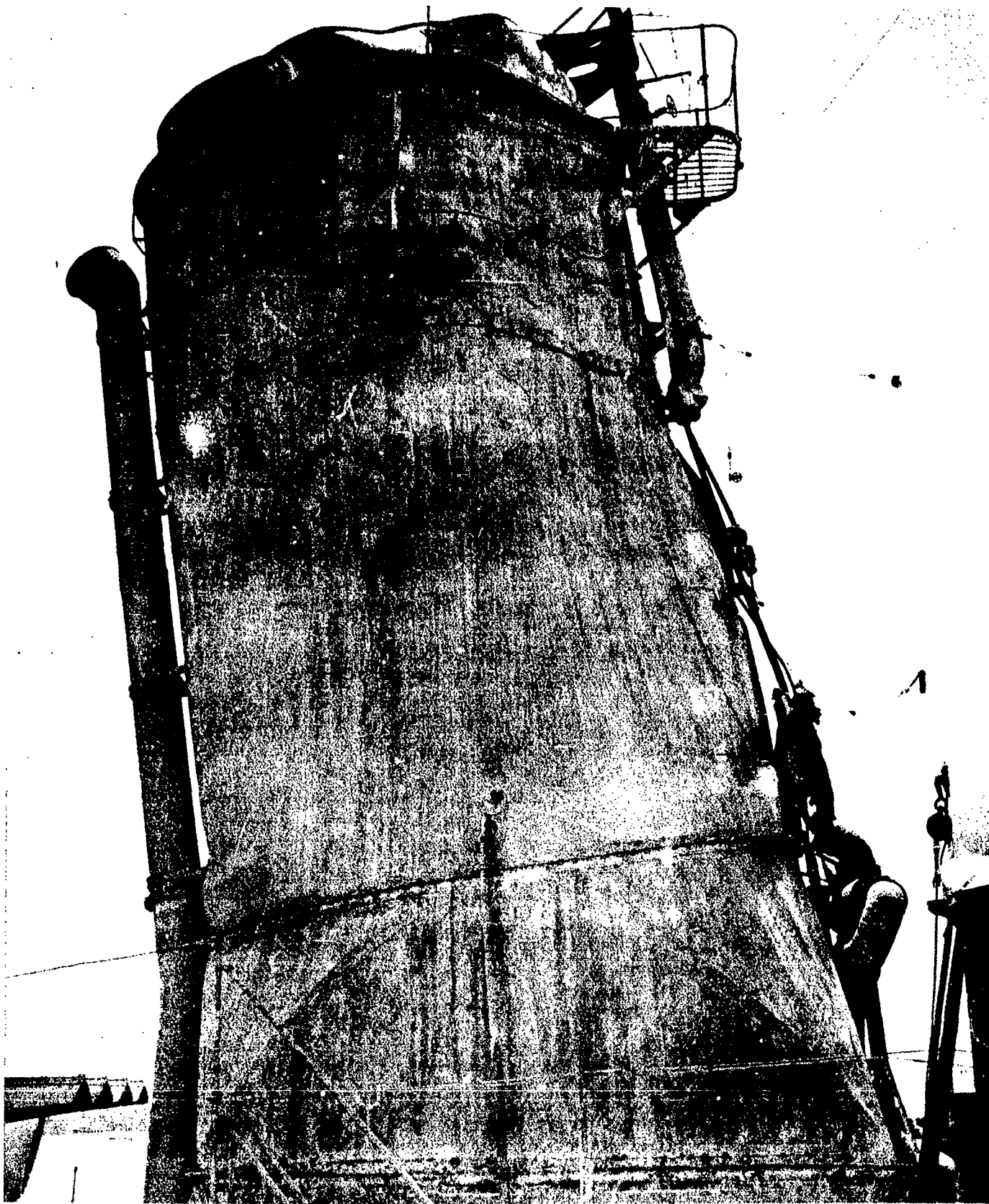
AB-CR-76-2076-12. Starboard and after faces of forward superstructure looking forward and to port. Port flag bag is carried away.

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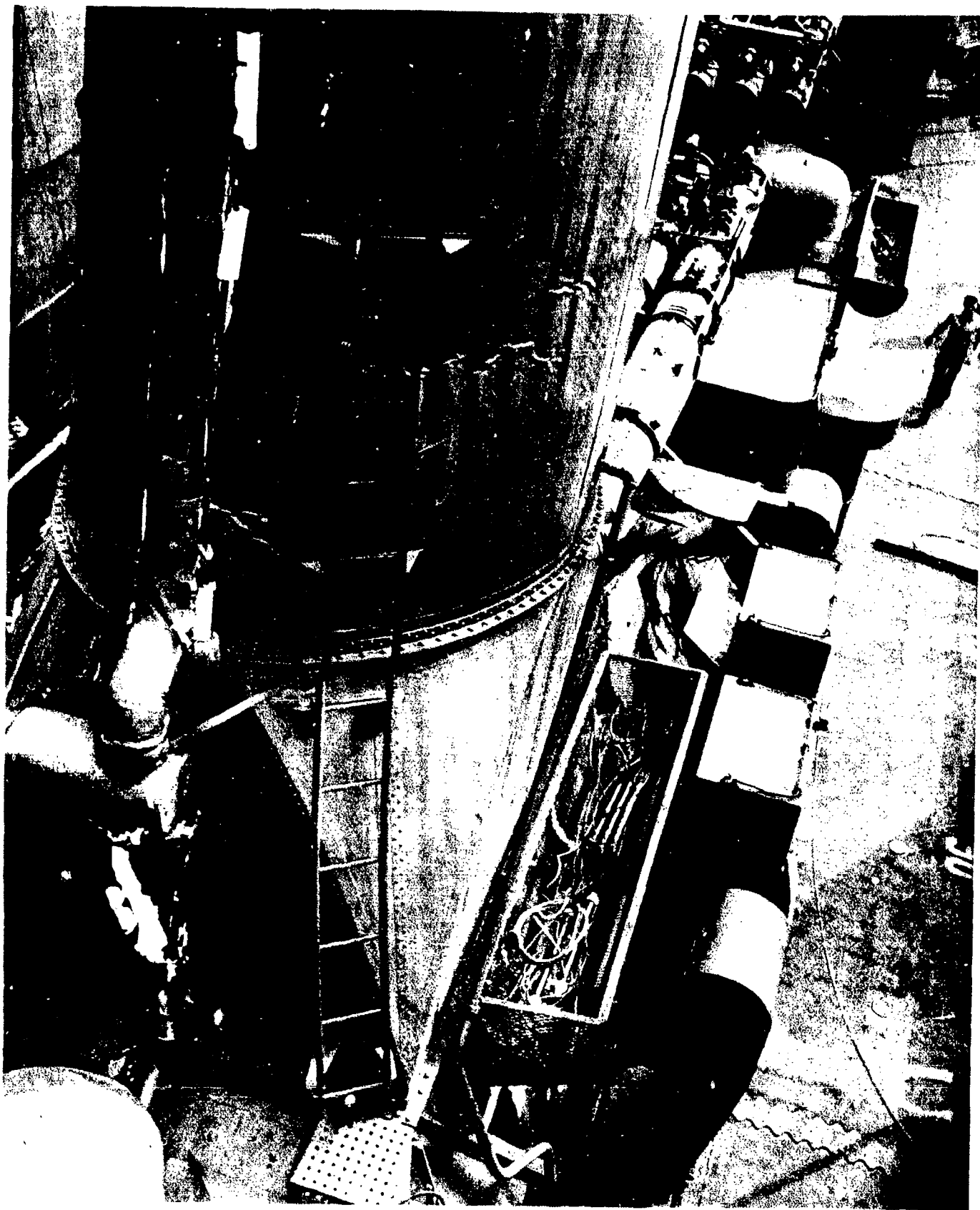
AB-CR-76-2077-2. Starboard side of stack.

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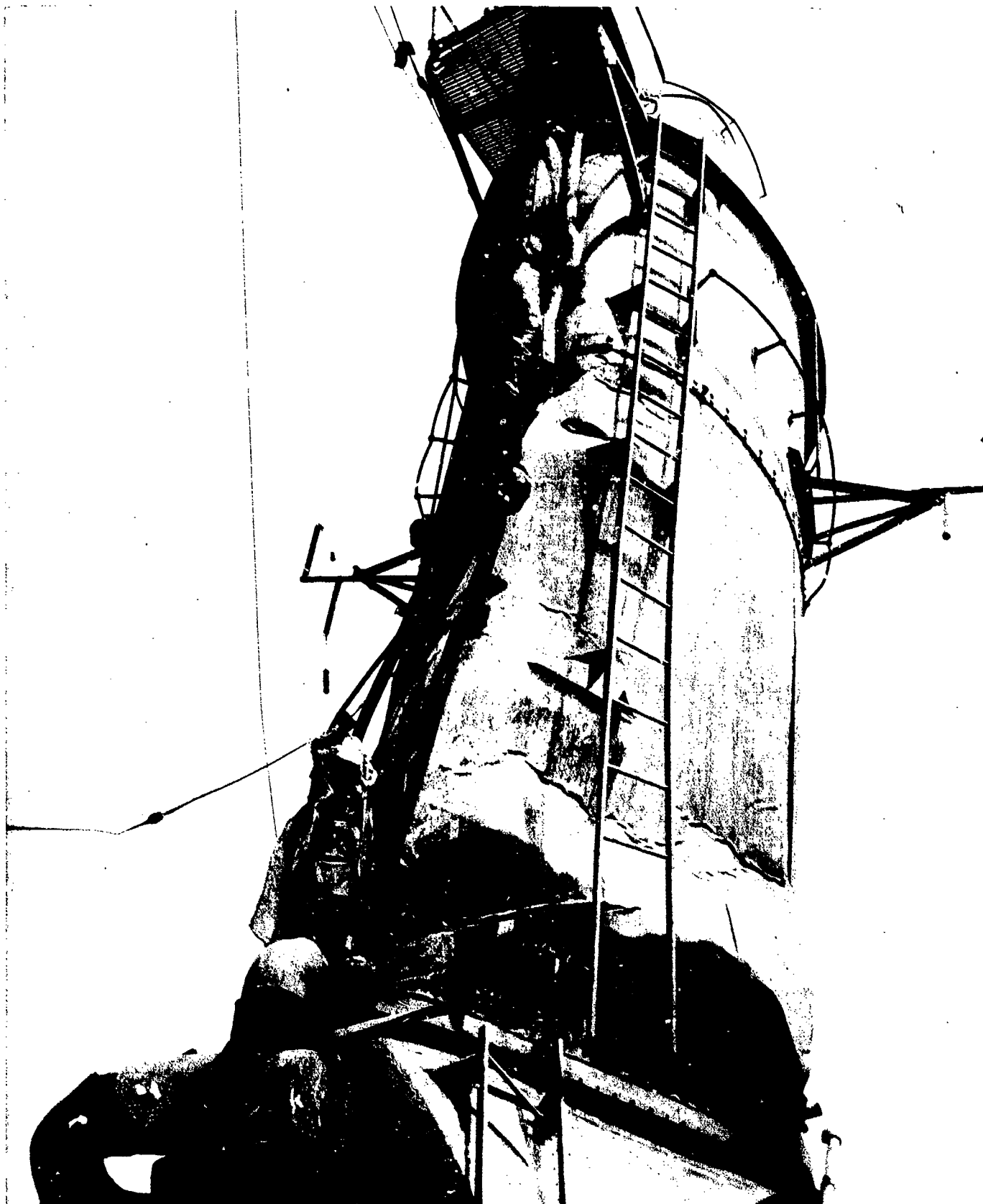
AA-CR-65-1849-10. Test A damage to stack, looking aft, down and slightly to starboard.

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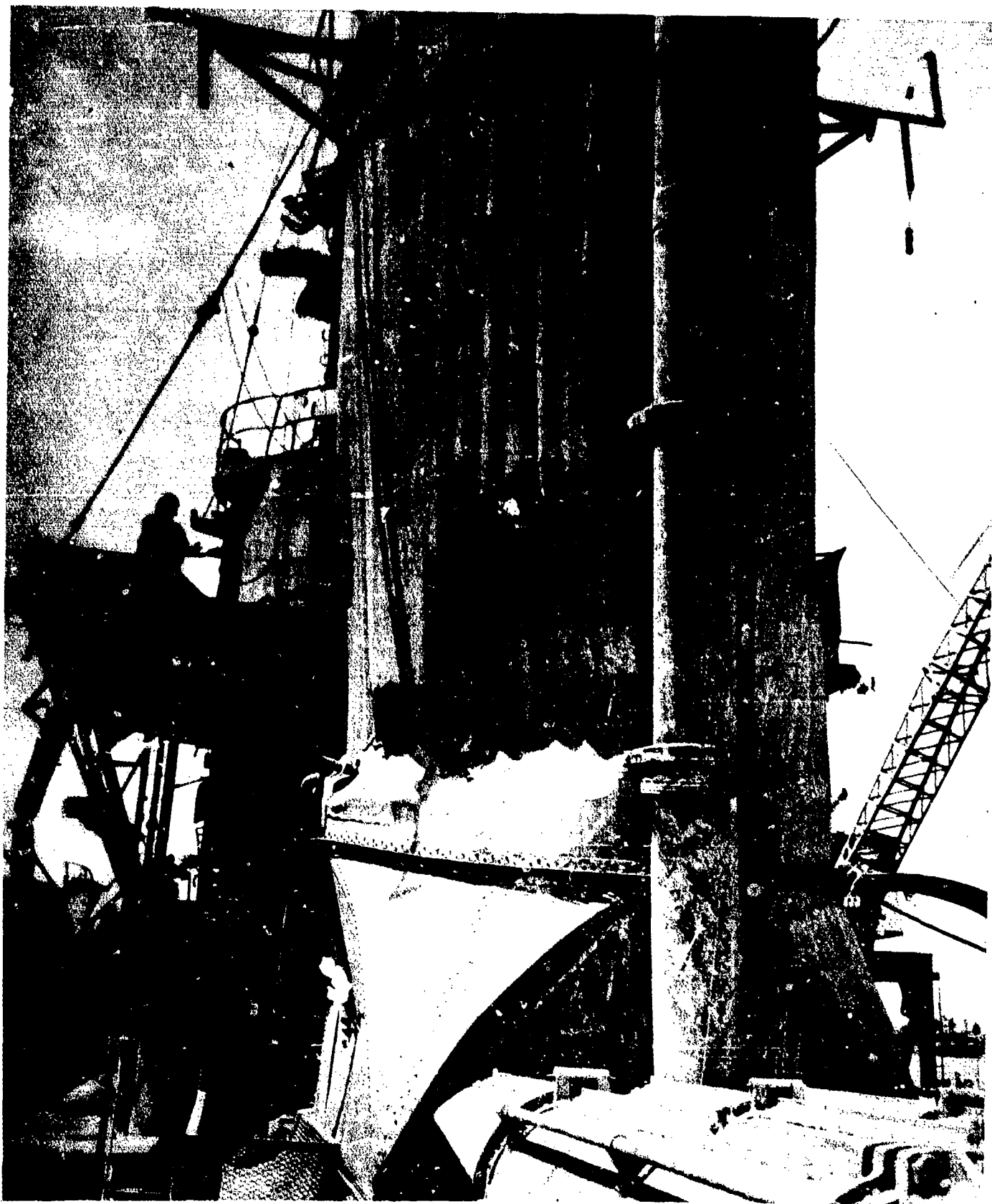
AB-CR-76-2077-5. Looking aft and to starboard at forward and port faces of stack.

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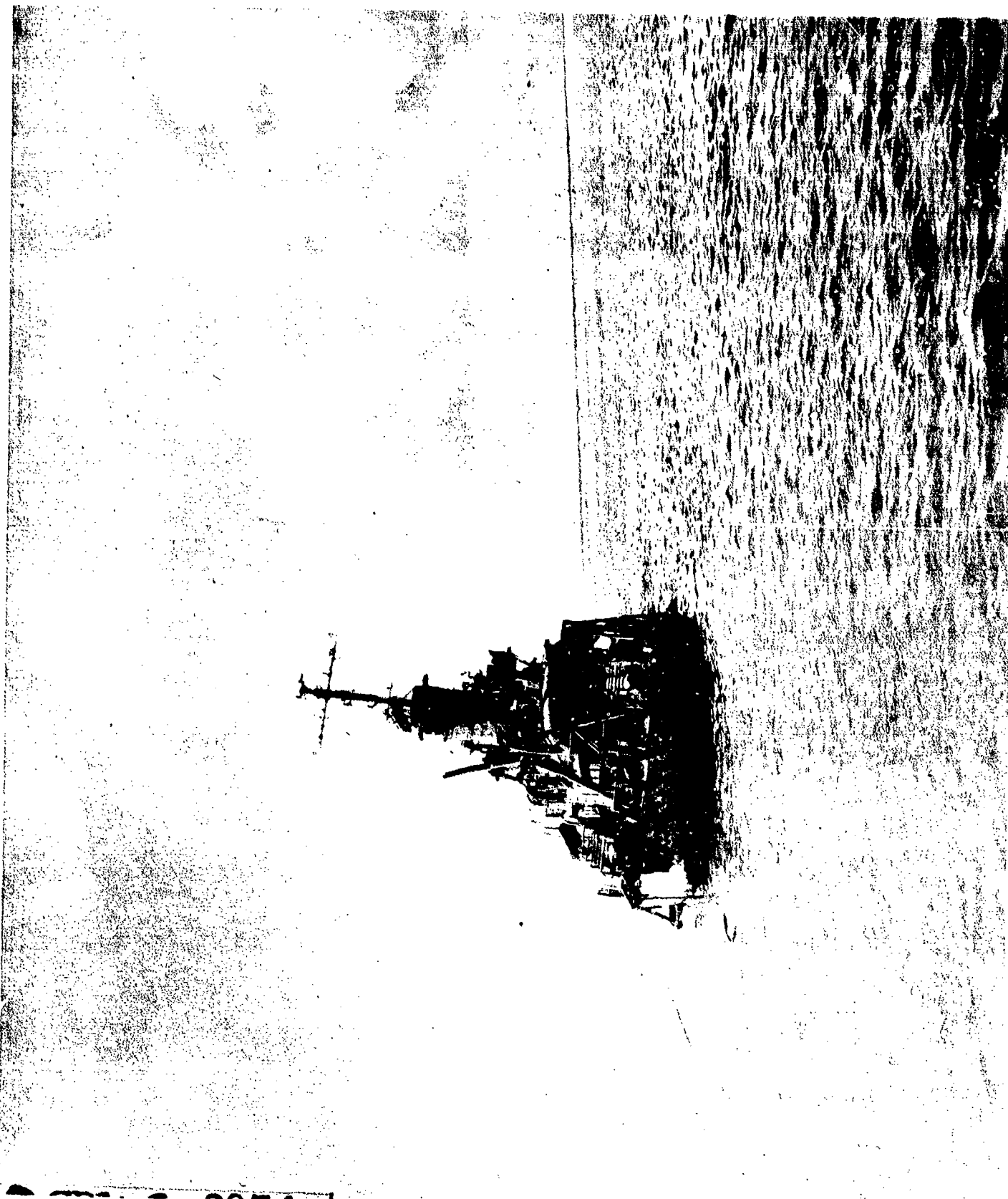
AB-CR-76-2077-9. Looking forward from port side of midship deck house at damage to port side of stack.

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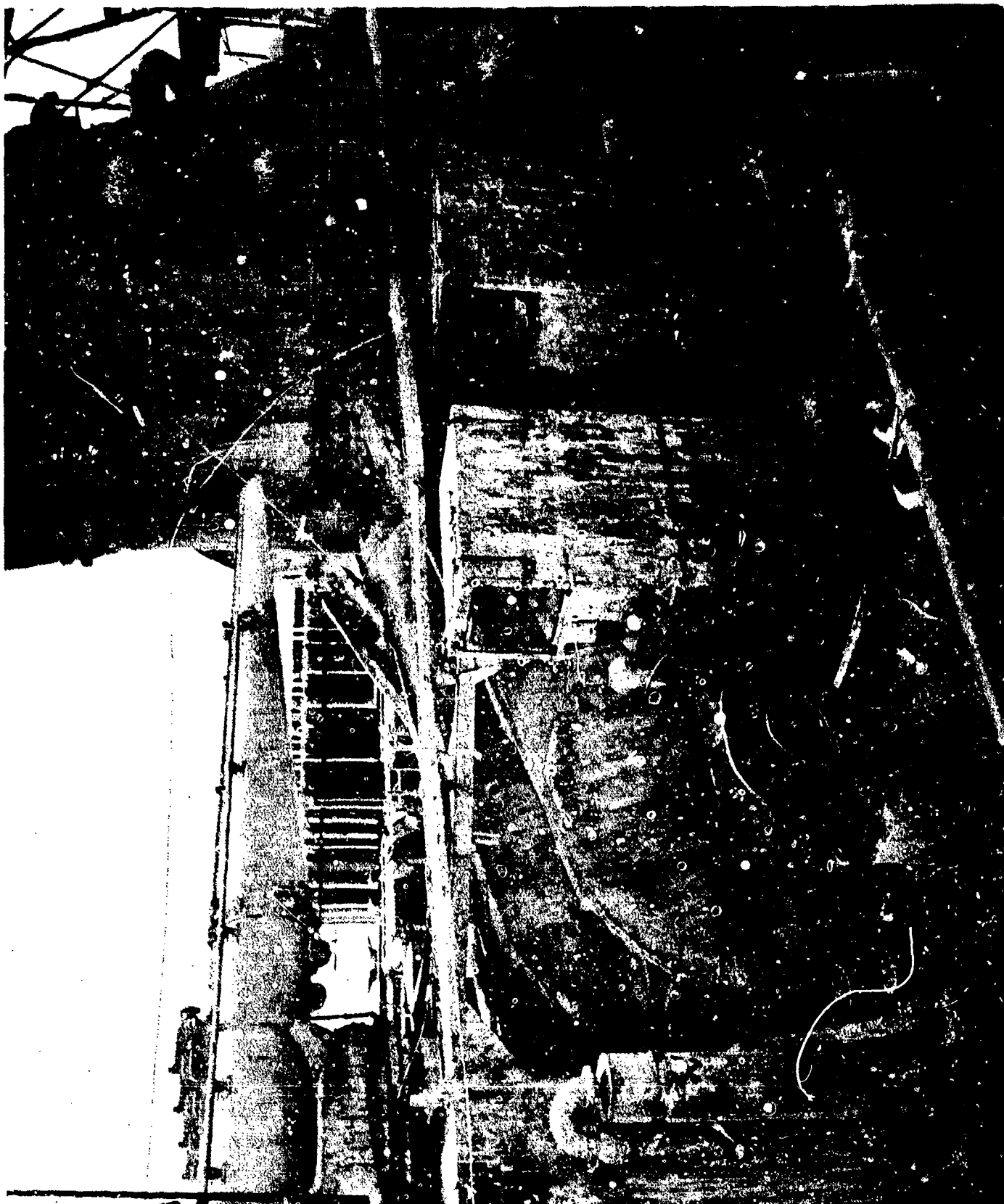
AB-CR-79-2974-4. View of ship after grounding from dead astern.

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AB-CR-76-2077-1. Looking to port at damage to starboard uptake from No. 3 boiler.

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AB-CR-76-2077-3. Looking aft and to port at damage to starboard side of No. 2 boiler uptake.

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AB-CR-76-2077-4. Damage to starboard side of No. 3 boiler uptake.

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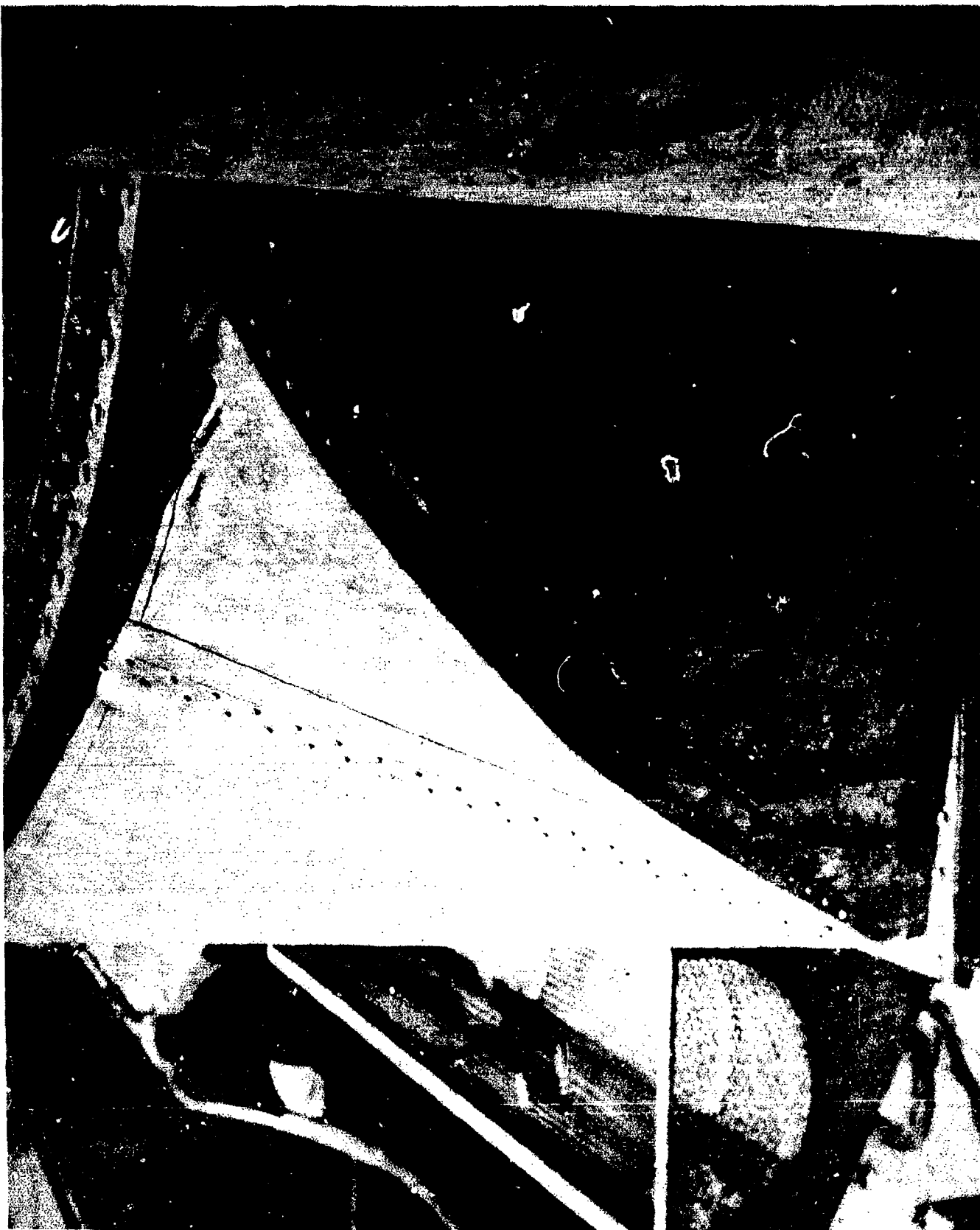
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AB-CR-72-2077-6. Damage to top of starboard leg of No. 3 boiler uptake.

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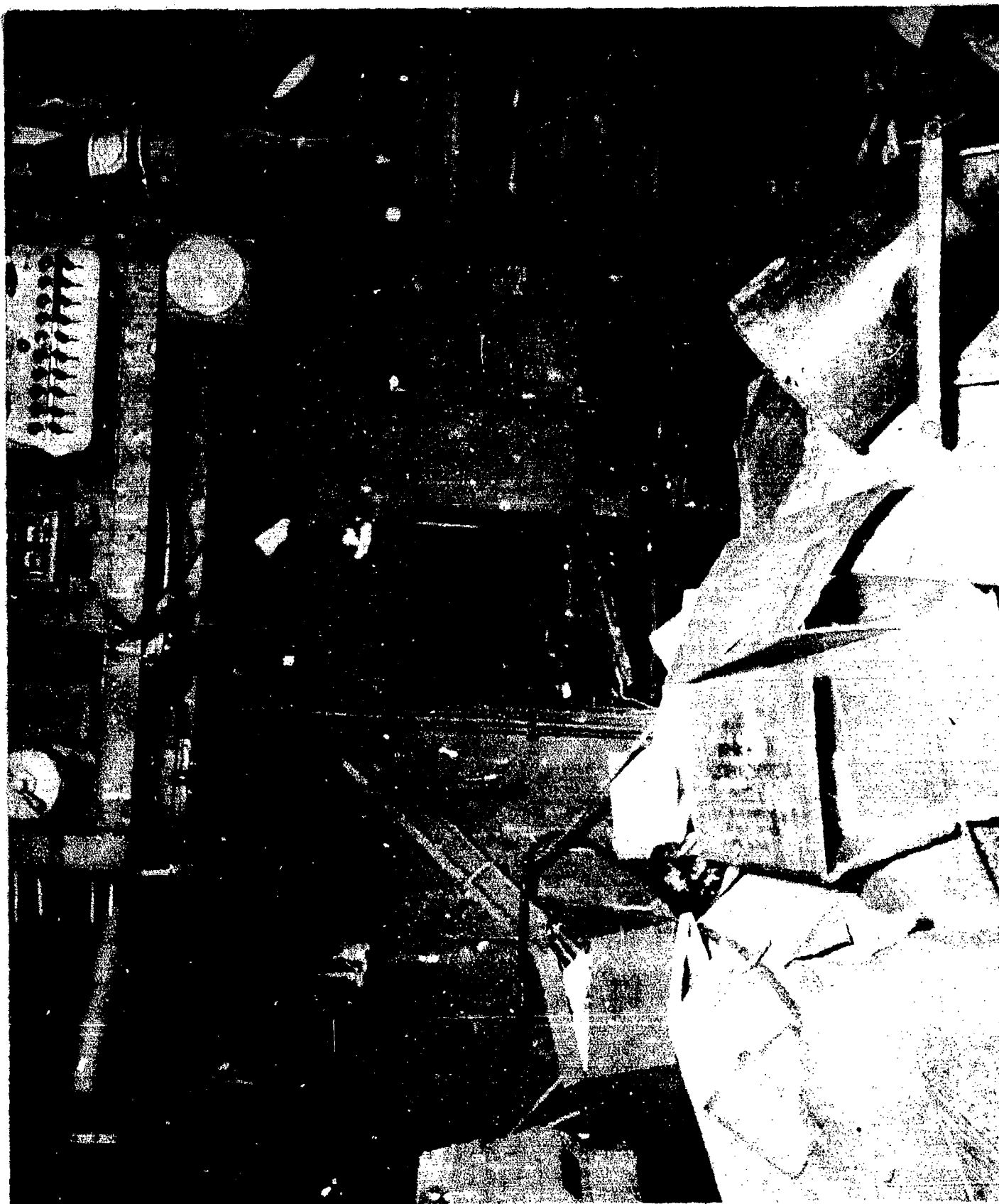
AB-CR-76-2077-10. Looking forward at after port side of stack transition piece.

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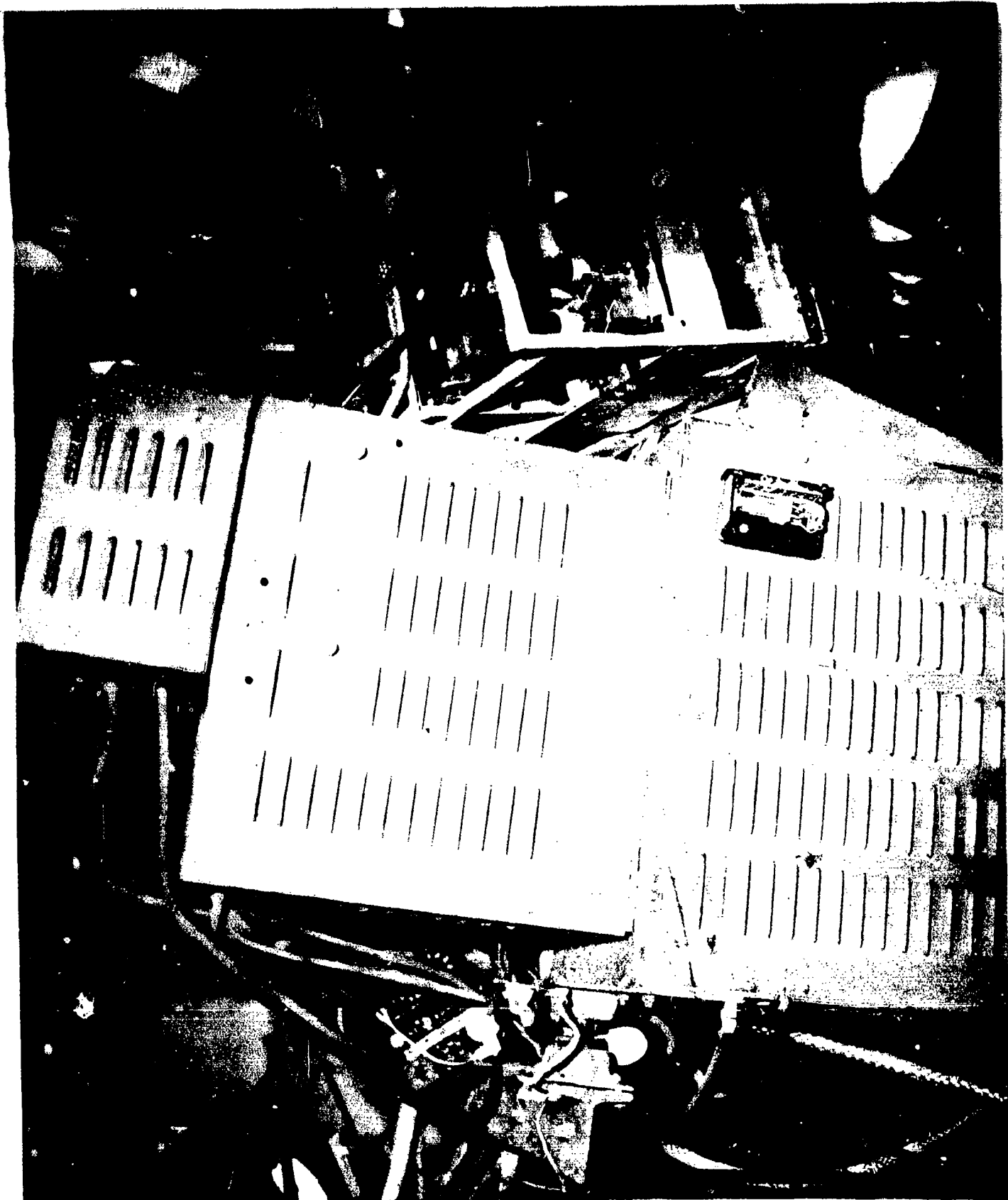
AB-CR-100-4204-3. Equipment damage in C.I.C. room A-0106-CL on superstructure deck looking forward to bulkhead 54 at centerline.

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AB-CR-78-1951-8. Equipment damage in deck house on superstructure deck.

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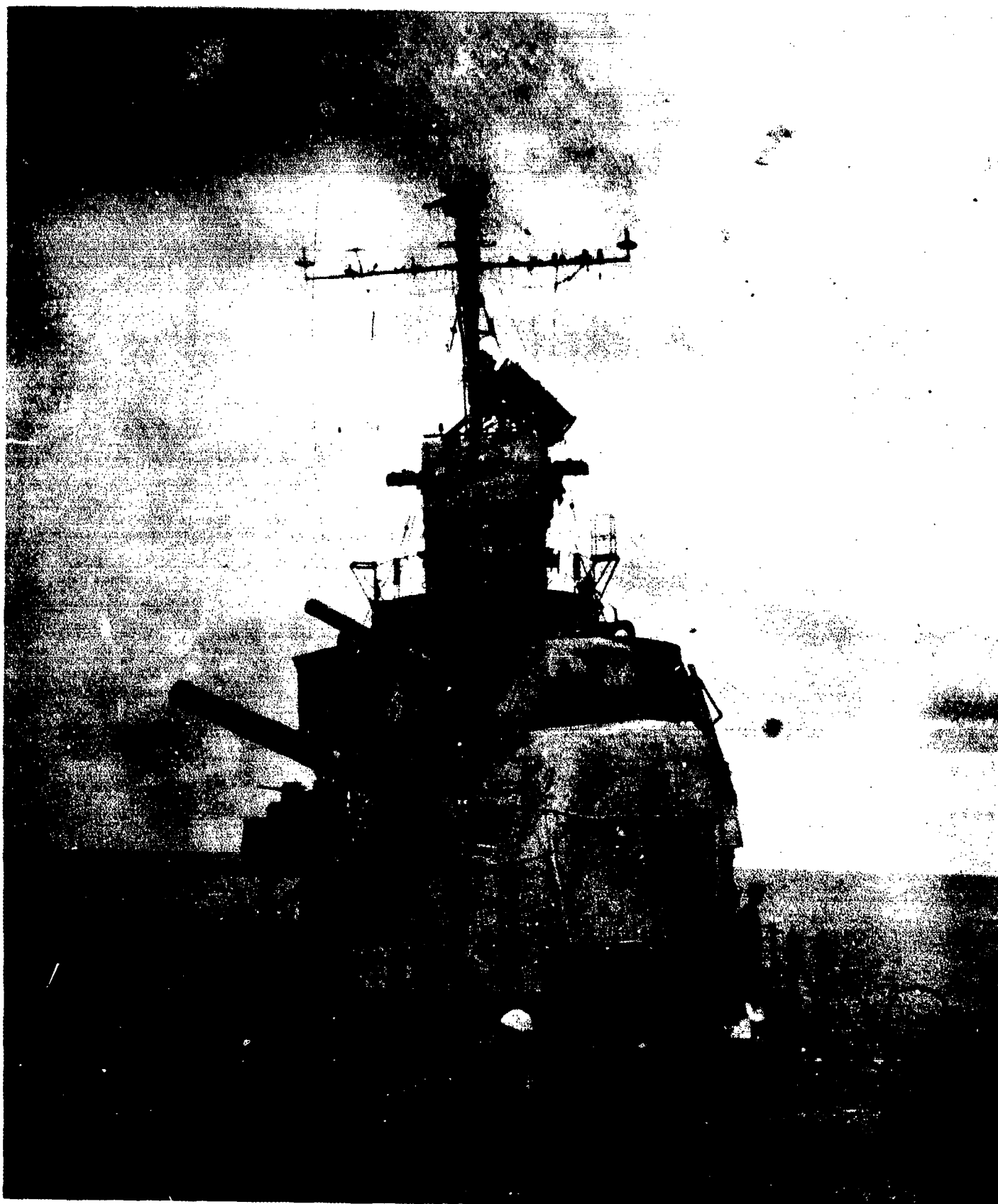
AB-CR-78-1951-12. Damage to electronic gear in deck house on superstructure deck.

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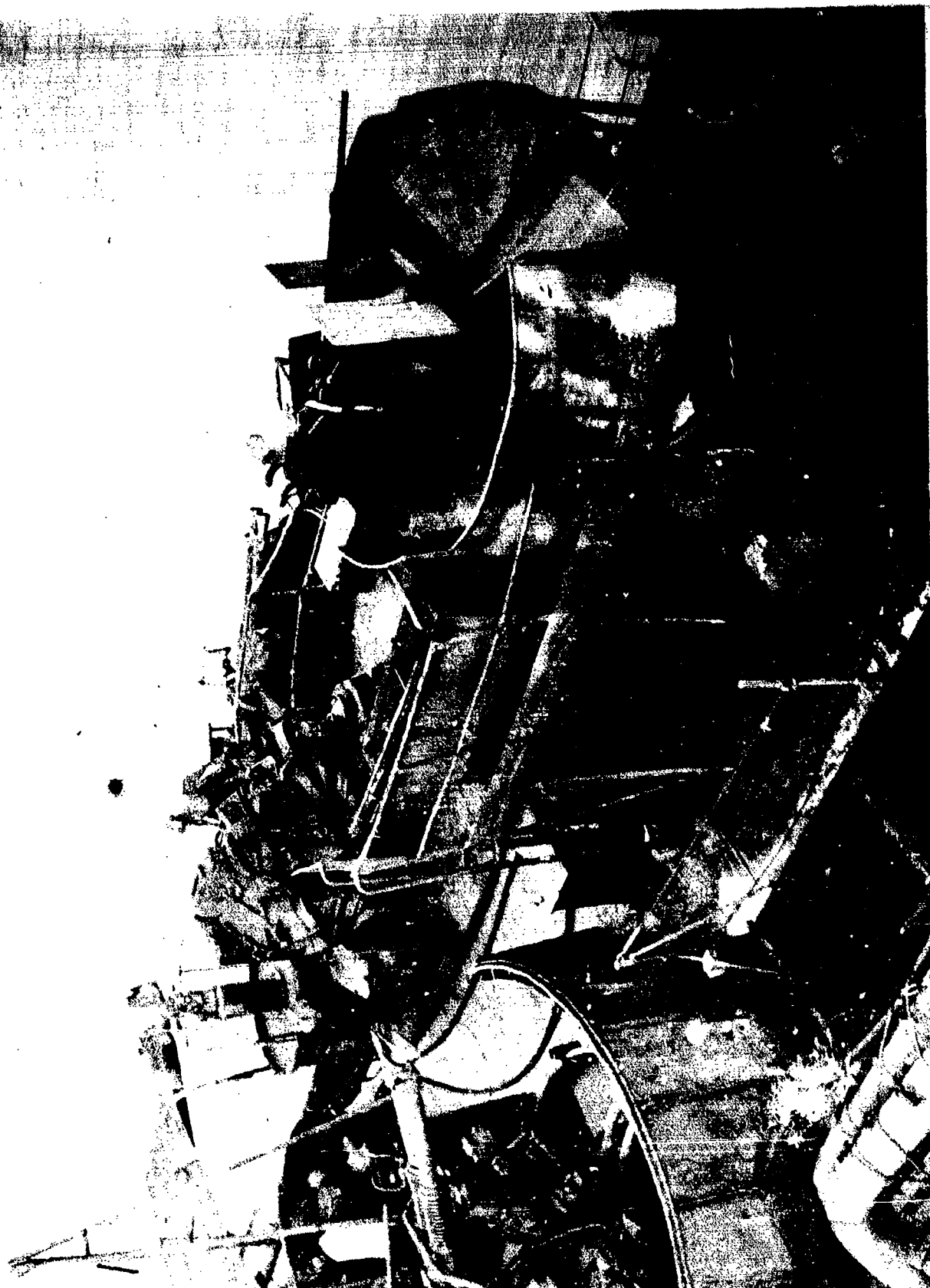
AB-CR-100-4204-1. General view of forecastle showing mounts.

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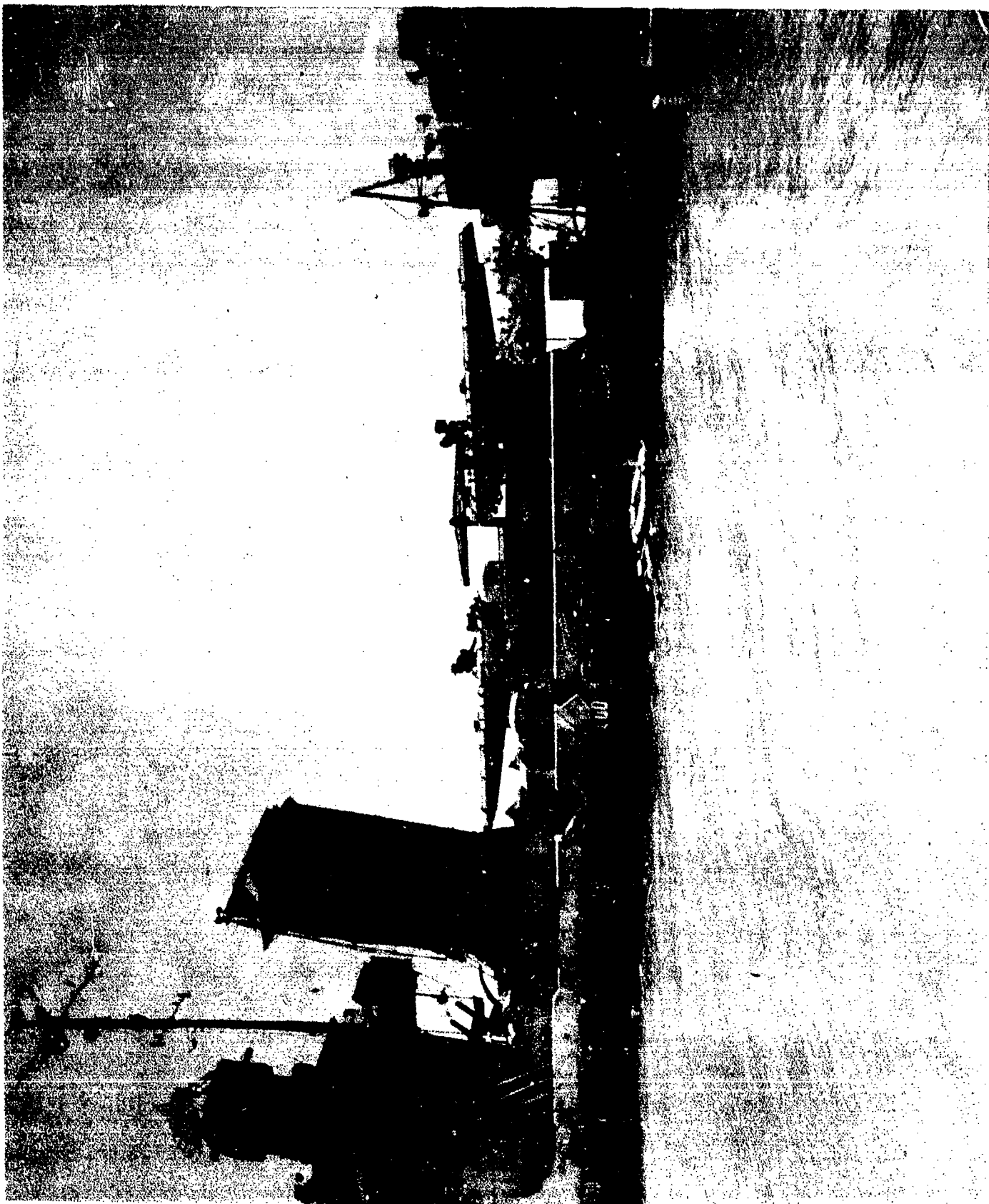
AB-CR-80-2062-3. Damage on after searchlight and gun platform, port.

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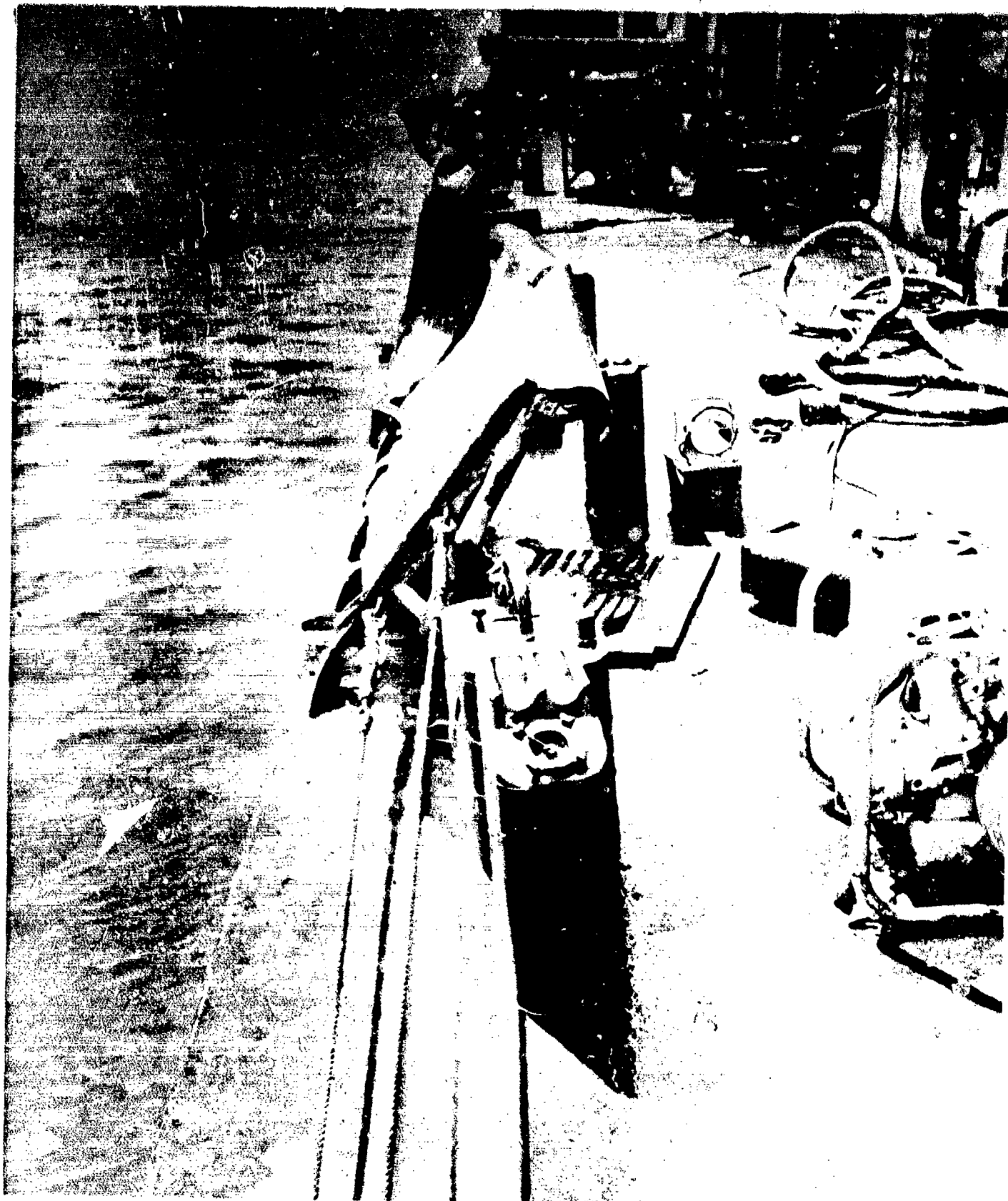
AB-CR-59-2996-9. View of superstructure amidships from port side after beaching.

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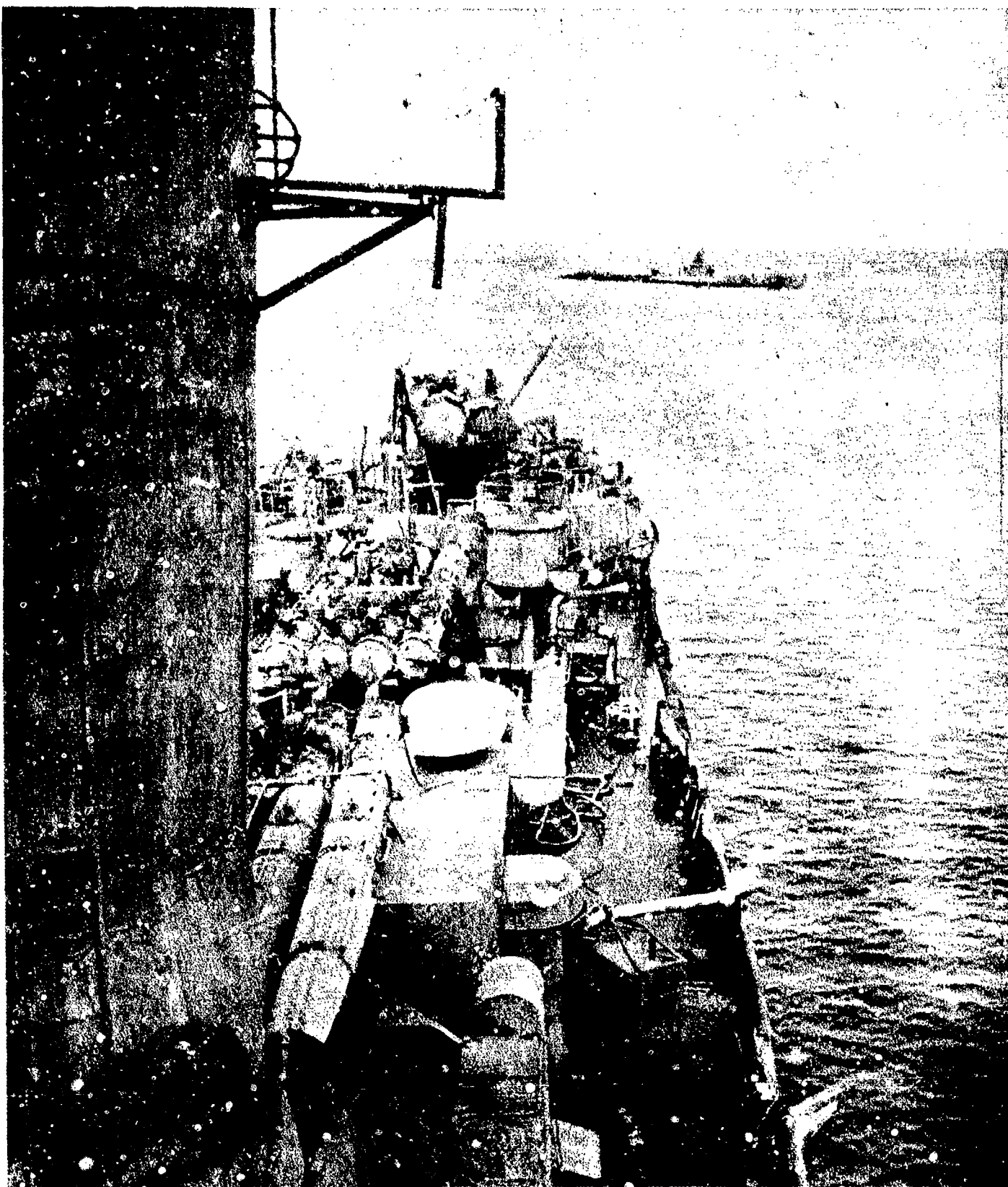
AB-CR-100-4211-1. Main deck, port side looking forward showing damage to bulwarks.

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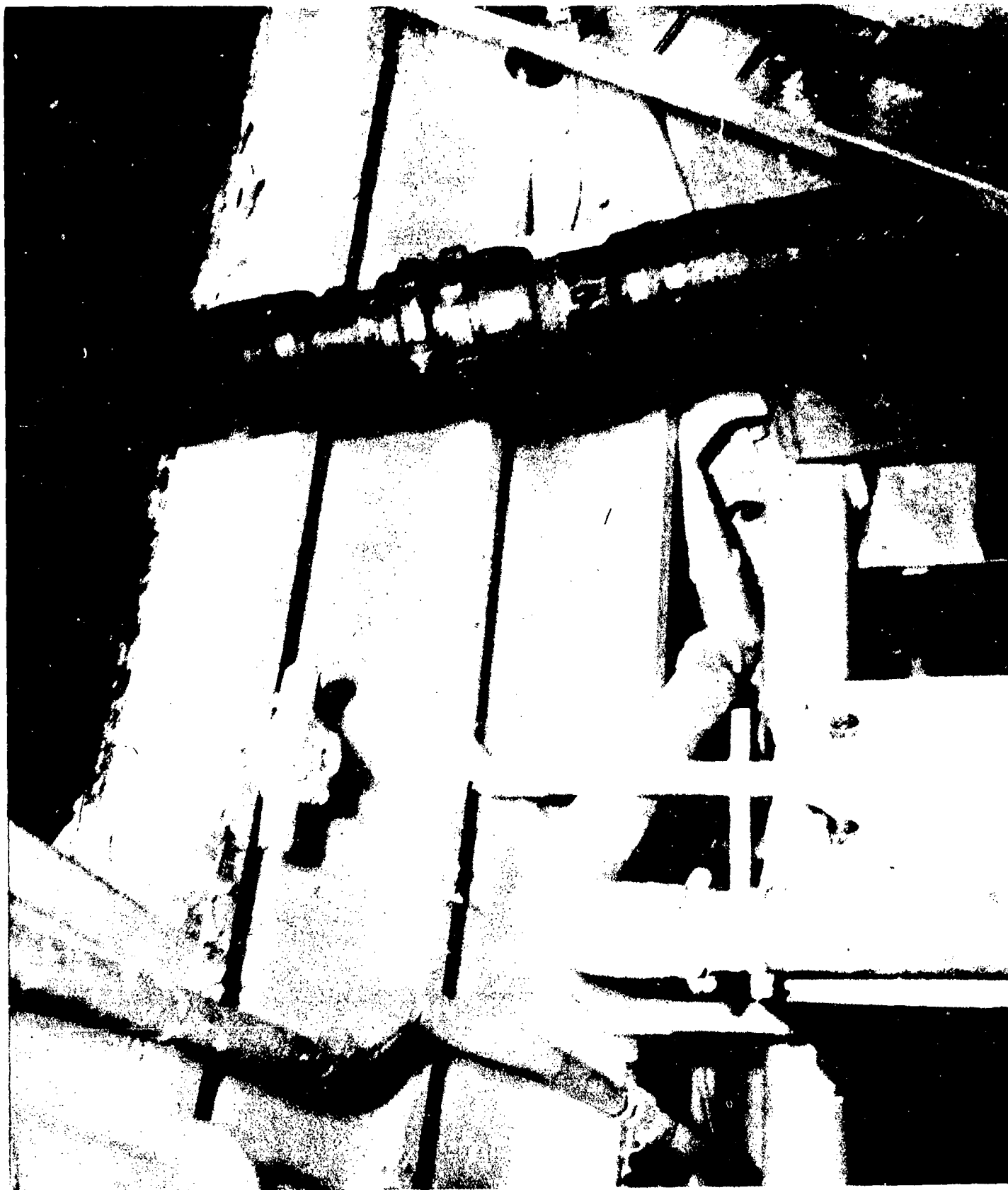
AB-CR-100-4204-5. Looking down and aft to main deck showing port side of stack and damage to port.

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AB-CR-100-4208-10. Damaged main deck longitudinals at frame 179 looking to starboard in crews quarters in way of main deck hatch.

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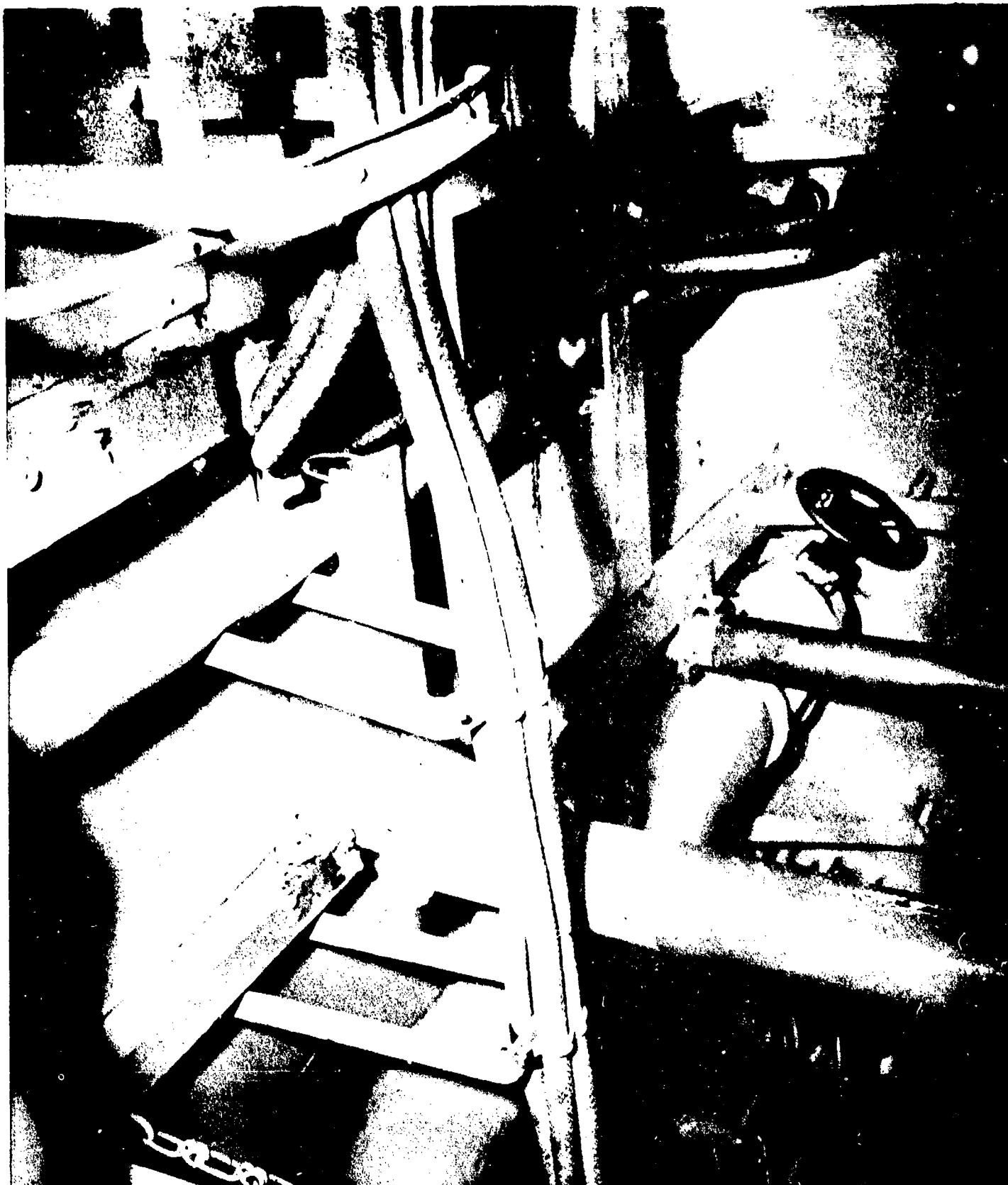
AB-CR-100-4208-11. Damaged main deck longitudinals at frame 179 looking to port in crews quarters in way of main deck hatch.

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AB-CR-100-4208-12. Damaged main deck centerline longitudinals at frame 181 in crews quarters looking aft to bulkhead 183.

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AB-CR-100-4211-11. Port shell, looking aft from frame 140.

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AB-C^R-82-4223-8. View of starboard shell plating from frame 75 aft and damage to uptake.

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AB-CR-100-4208-4. Buckled stanchions at frame 175, between main deck and first platform looking to port in crews quarters and damage to main deck longitudinals at after side of bulkhead 173.

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AB-CR-100-4208-9. Damaged web frame 175, port side looking forward on first platform in crews quarters.

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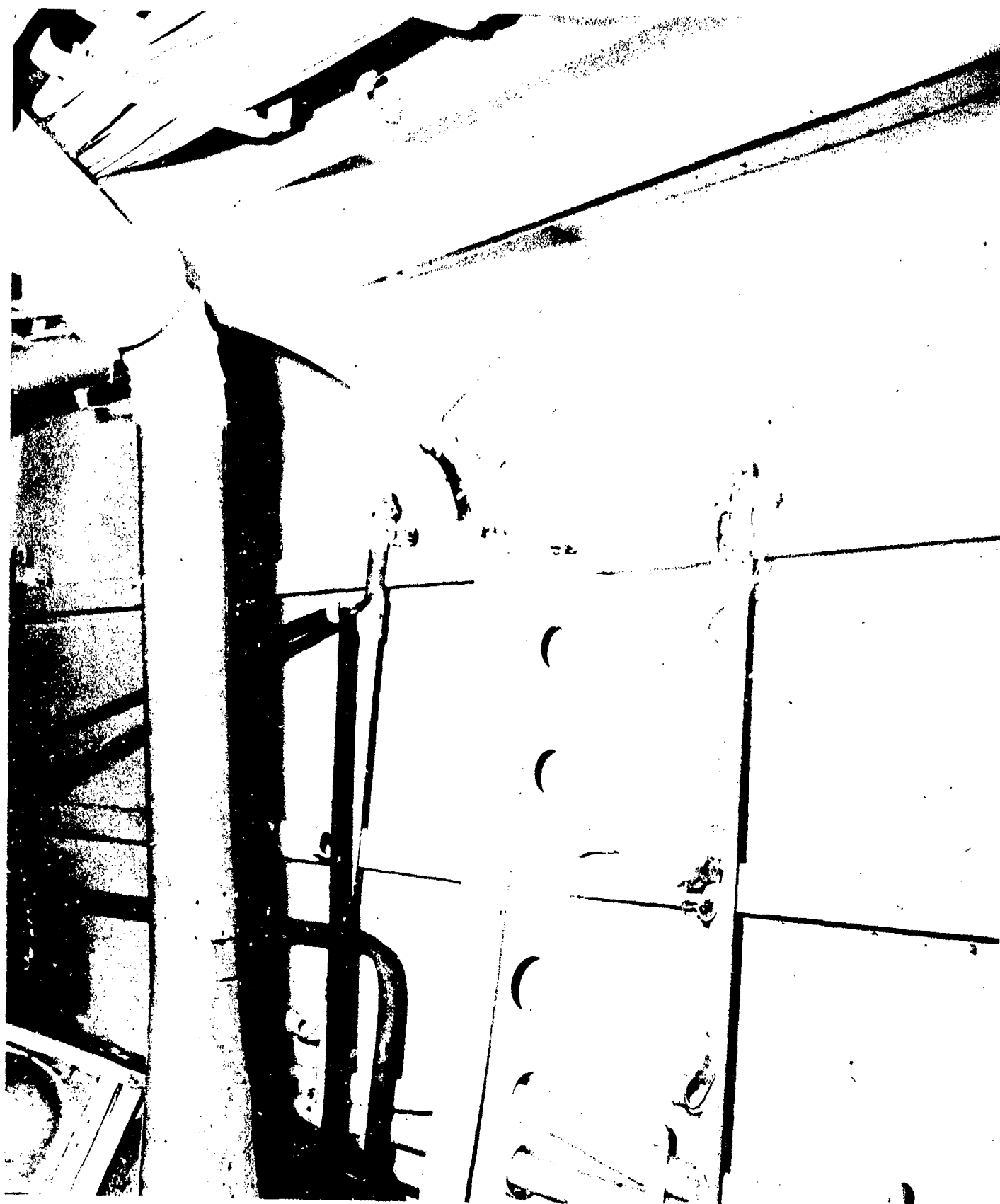
AB-CR-100-4208-7. Damaged web frame 175, starboard side looking aft on first platform in crews quarters.

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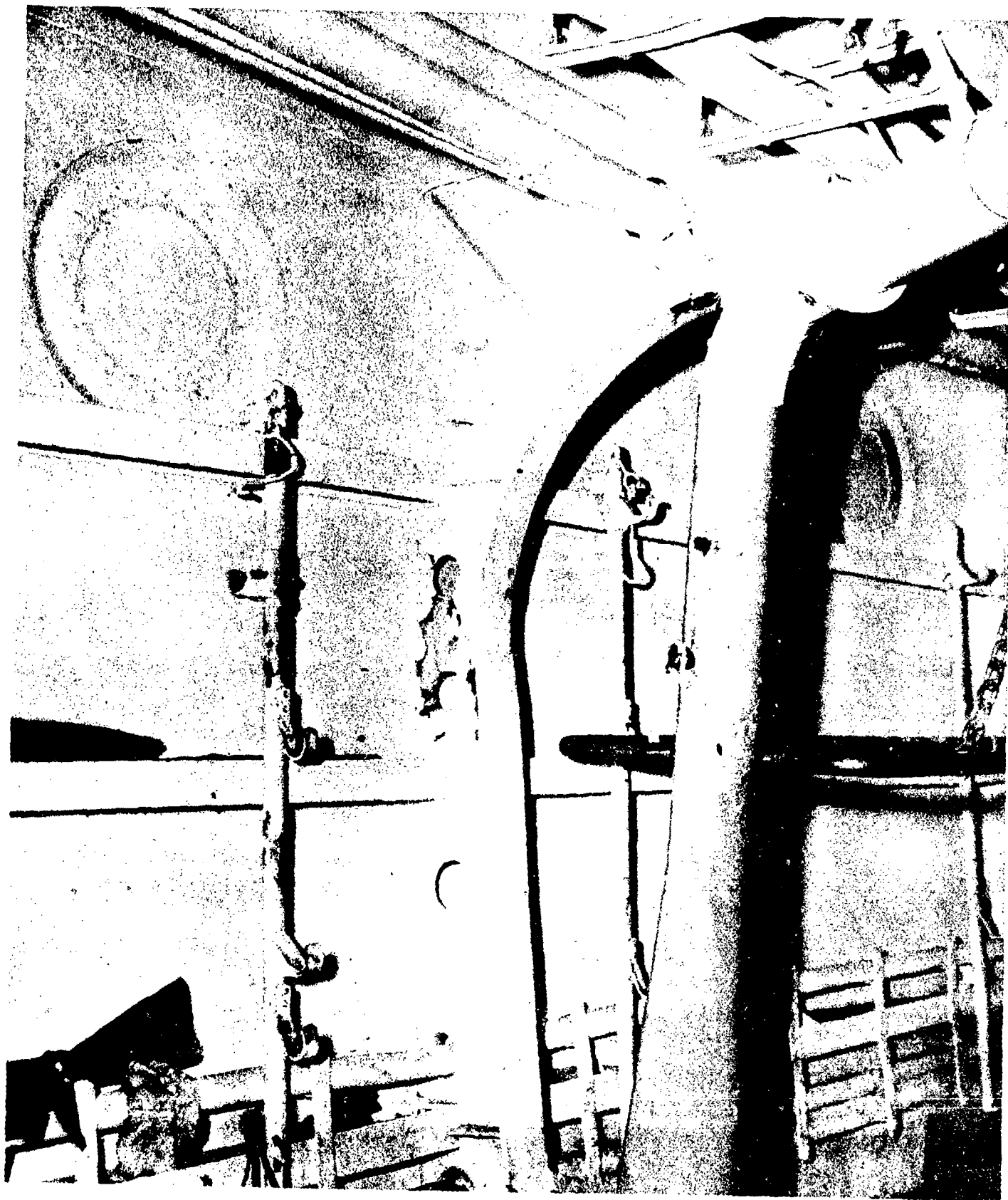
AB-CR-100-4208-8. Damaged web frame 179, port looking aft on first platform in crews quarters.

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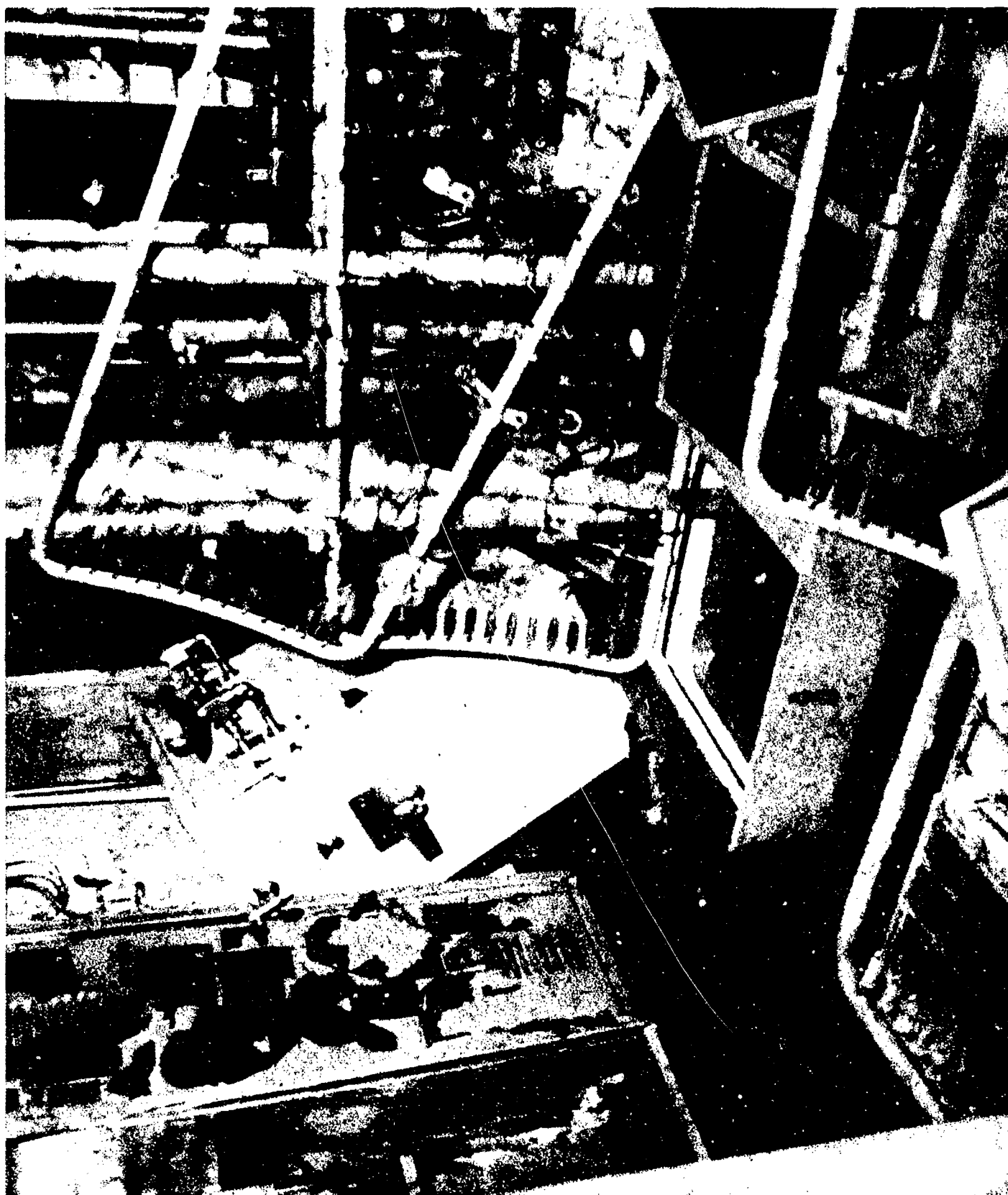
AB-CR-100-4208-5. Damaged web frame 179, starboard side looking aft on first platform in crews quarters.

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AB-CR-97-4058-12. C-201-L. Crews quarters, 1st platform, looking aft and to port at general disarrangement of equipment.

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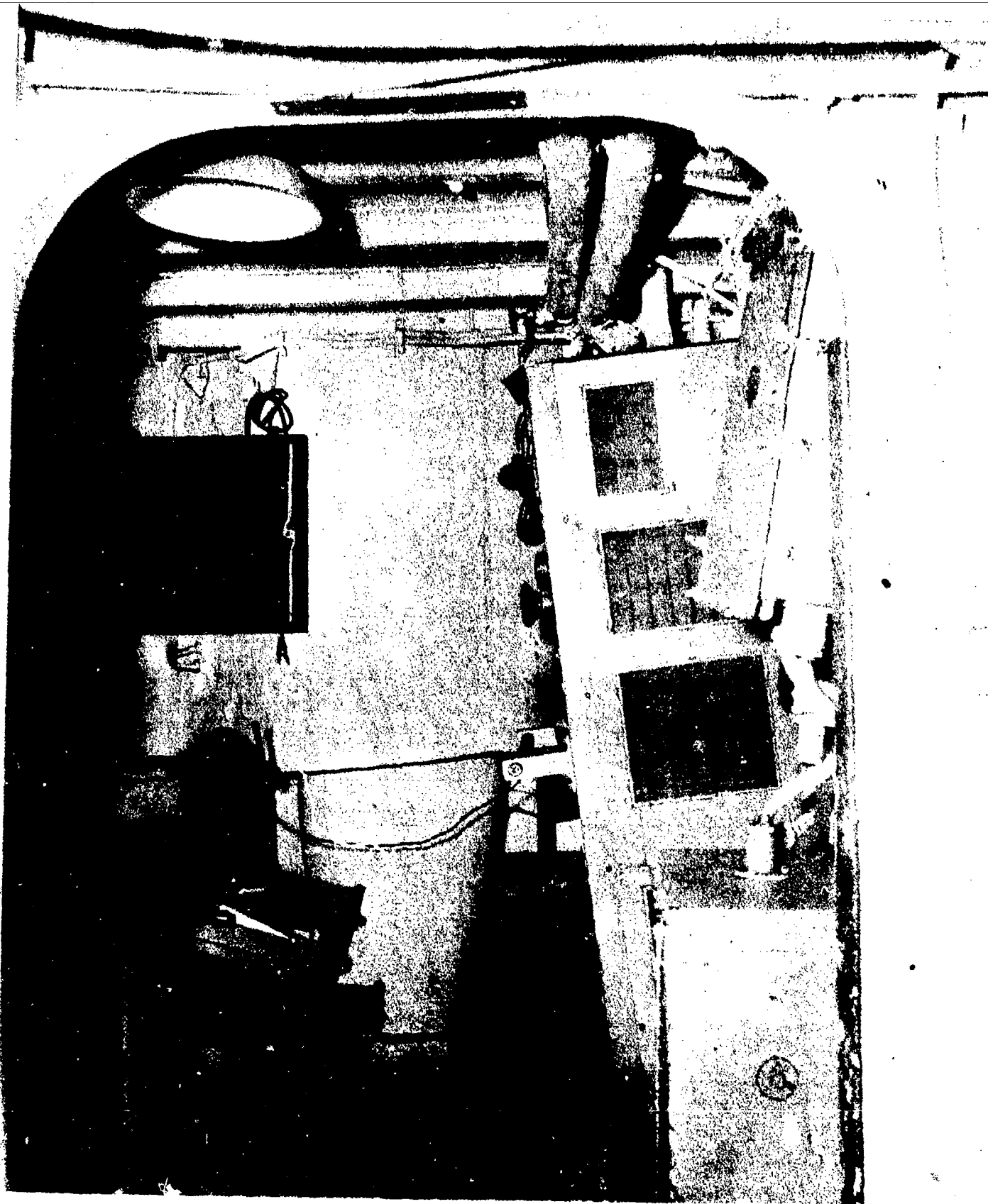
AB-CR-100-4211-4. Looking forward on main deck port side, to bulkhead 25 showing broken toilet bowl, piping and ammunition cans.

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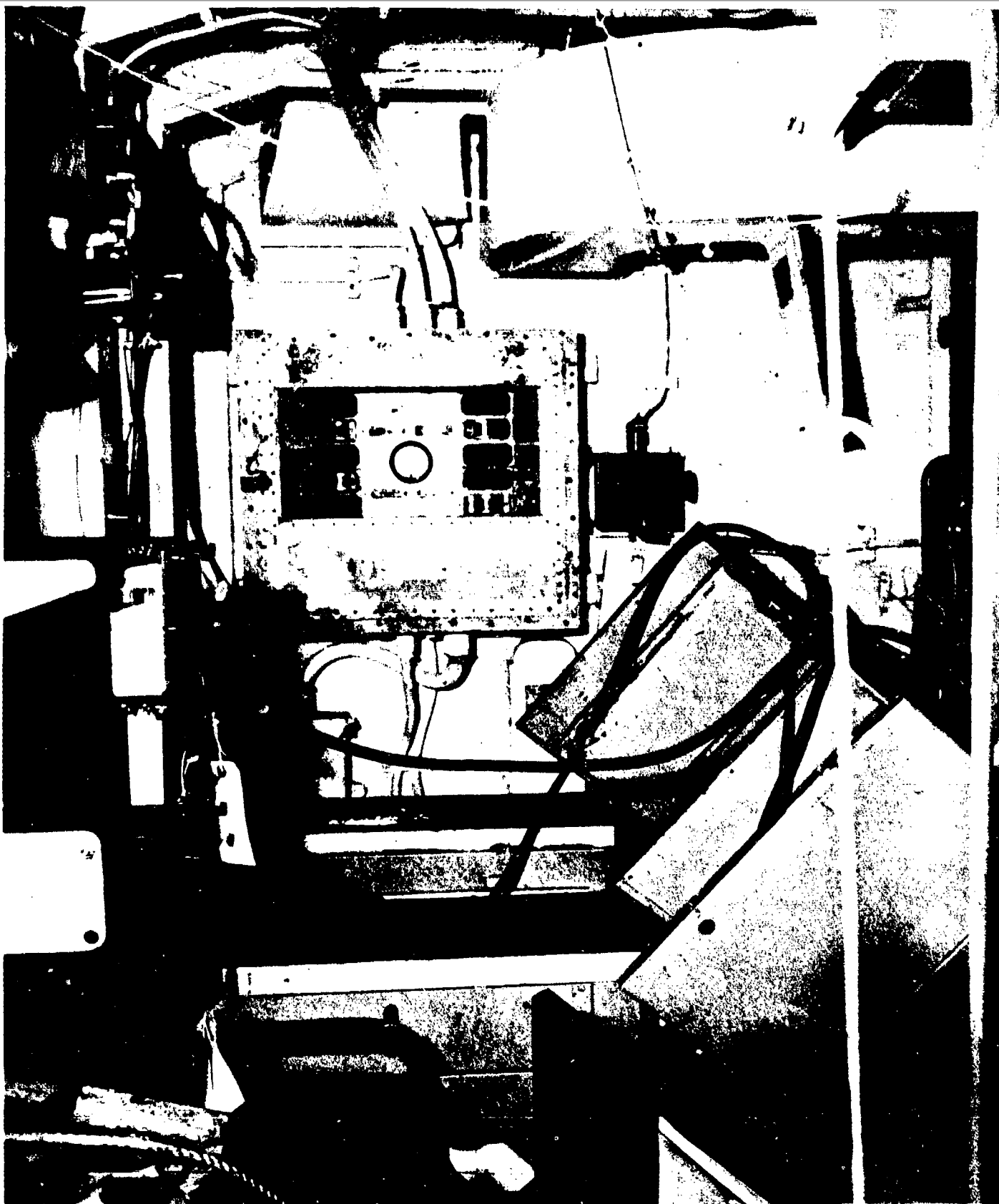
AB-CR-100-4204-7. Equipment damage in electrical workshop on main deck starboard side looking aft through arch at frame 106.

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AB-CR-100-4204-9. Equipment damage in emergency radio room B-107C, looking forward on main deck to bulkhead 131.

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AB-CR-234-4062-10. A-1W. Buckling of floor in peak tank at frame 3, looking forward.

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AB-CR-234-4062-6. A-1W. Looking forward in peak tank showing buckled floor at frame 3.

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AB-CR-234-4062-9. A-1W. Buckling of floor in peak tank at frame 4 looking forward and down from frame 5.

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AB-CR-234-4062-8. A-1W. Looking down into peak tank showing buckling of floor at frame 5.

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AB-CR-234-4061-1. A-401W. Buckling of floors in peak tank, bulkheads 6 to 14, looking aft about 6 feet above keel.

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AB-CR-234-4061-2. A-401W. Buckling of floors in peak tank, bulkheads 6 to 14, looking aft.

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AB-CR-234-4061-3. A-401W. Buckling of floors in peak tank, bulkheads 6 to 14, looking aft about 4 feet above keel.

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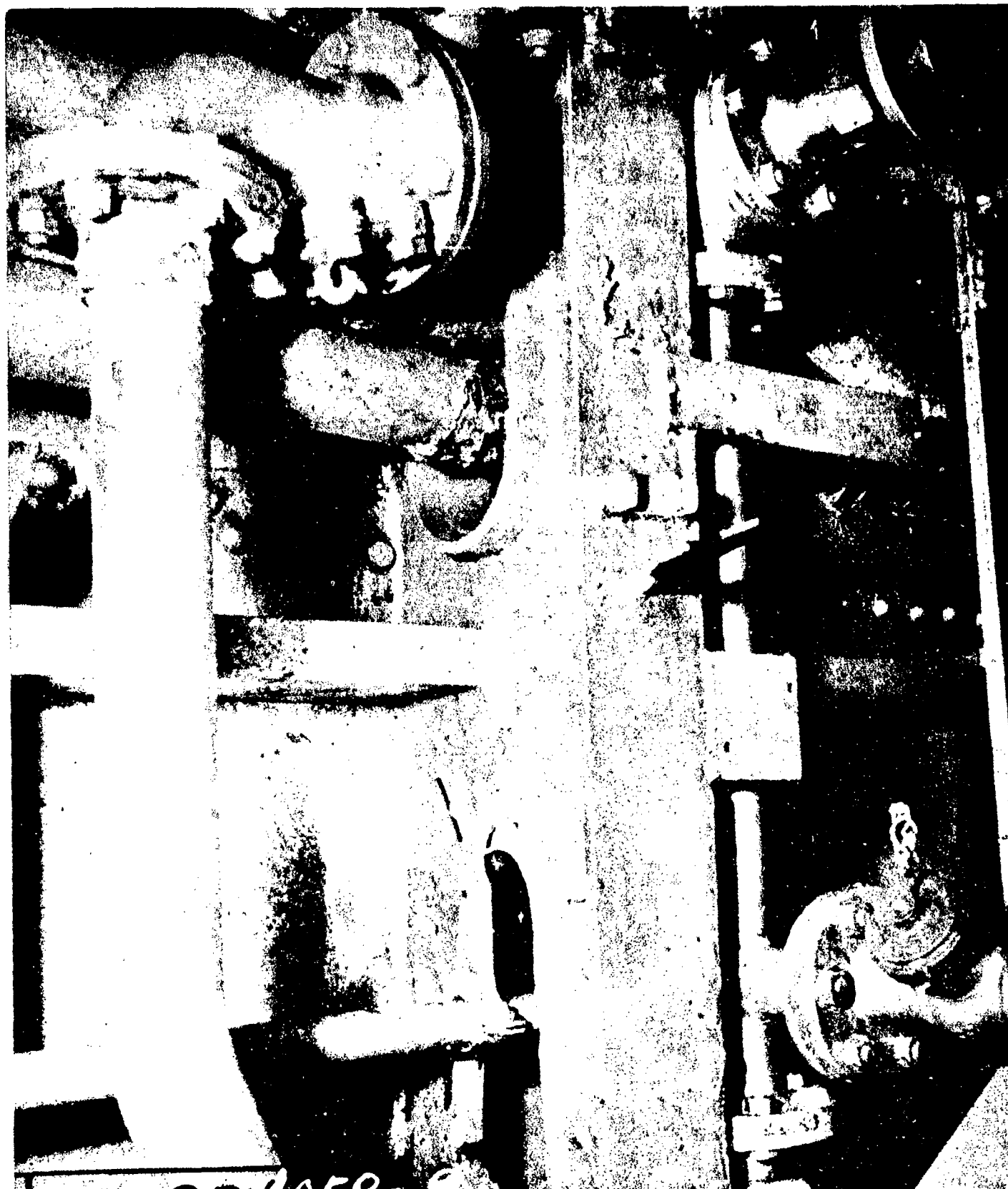
AB-CR-234-4061-7. Forward fire room B-1-1, buckle in web frame 78, about 8 feet to starboard of centerline, looking down.

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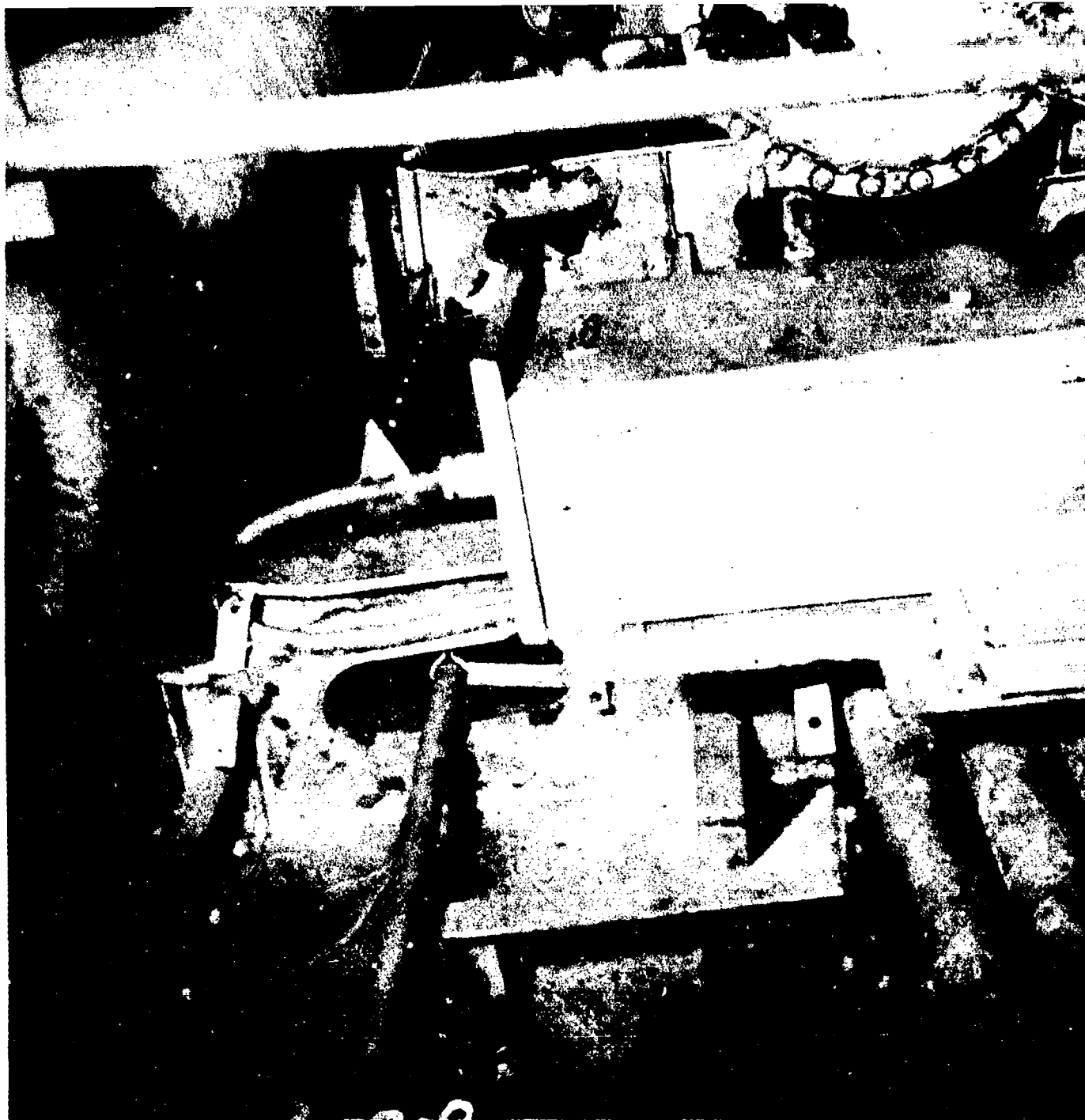
AB-CR-97-4058-9. Forward engine room B-3-1, damage to web frame 106, starboard looking forward.

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AB-CR-97-4058-8. Forward engine room, starboard side, looking aft showing damage to frames 110 and 113.

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AB-CR-97-4058-2. Aft engine room, B-4-1. The center 3 1/2" diameter pipe is a buckled surge tank support located at starboard of centerline at frame 129, looking aft.

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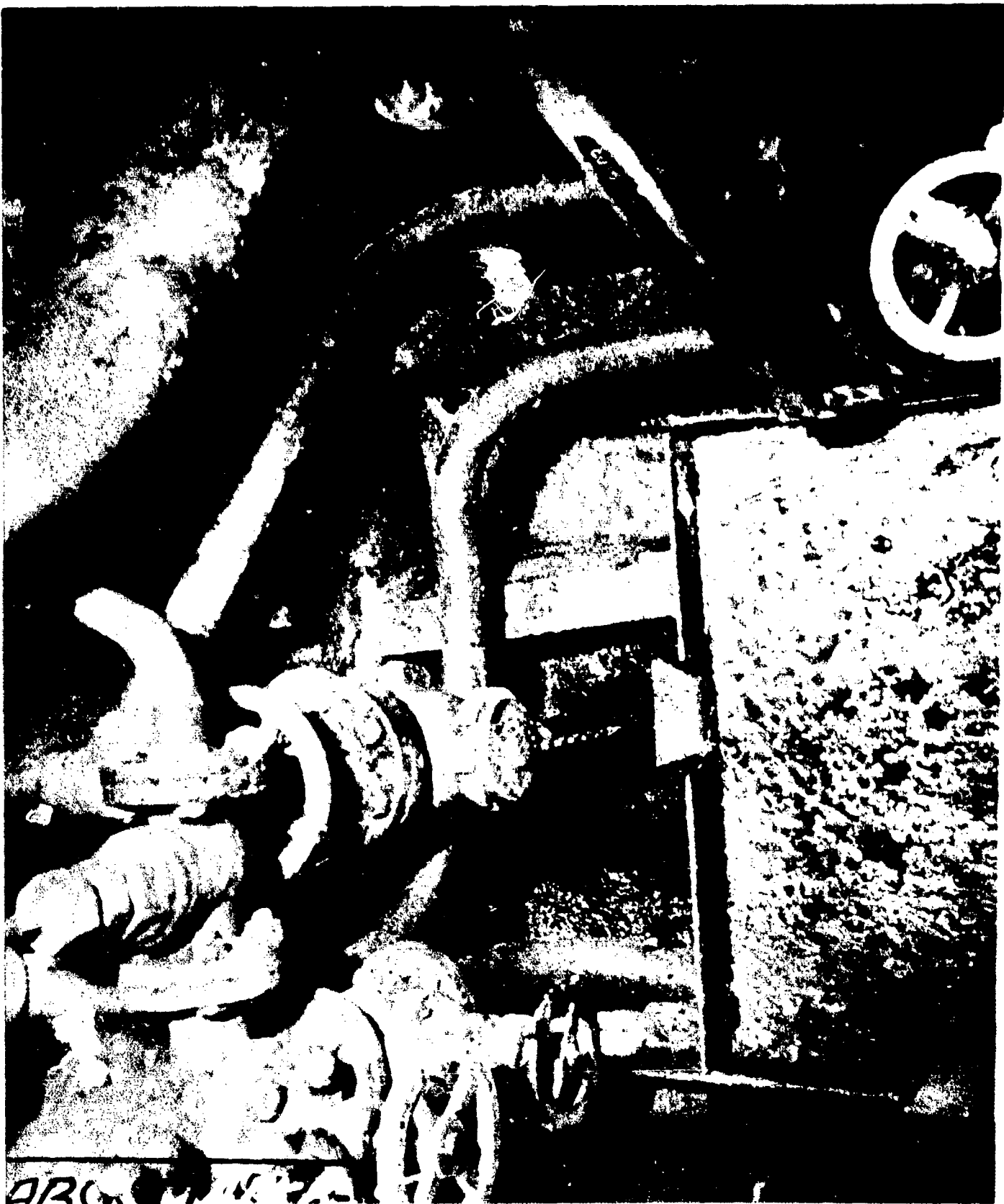
AB-CR-97-4058-4. Aft engine room, B-4-1, 3 1/2" diameter stanchion to port of centerline, frame 128, looking inboard and forward.

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AB-CR-97-4058-5. Aft engine room B-4-1 distorted bottom longitudinal just forward of bulkhead 135, port.

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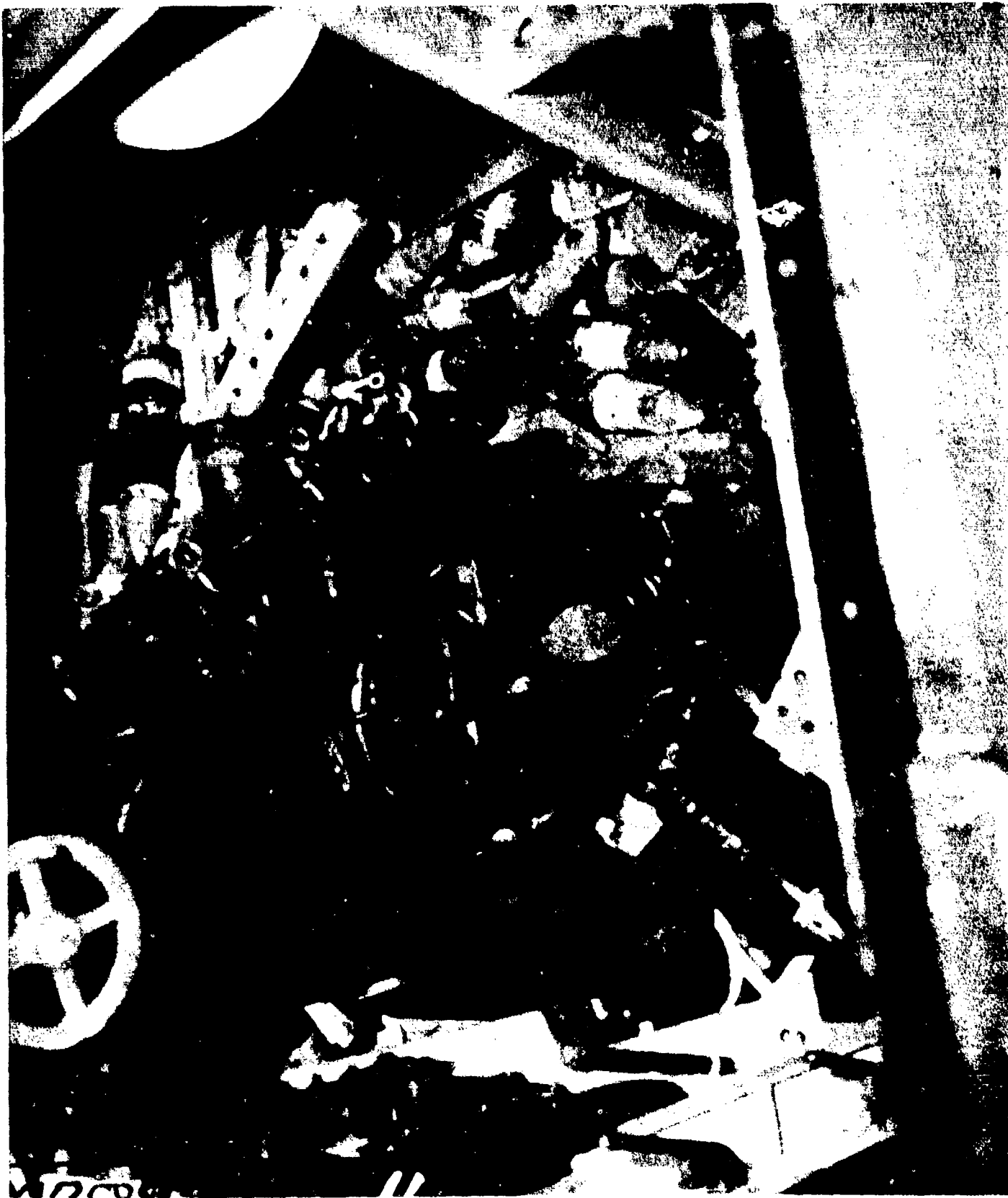
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AB-CR-97-4058-10. C-201L. Looking down and aft through 1st platform hatch at frame 146 into 5" handling room C-301M and through door to C-302M, 5" powder.

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AB-CR-97-4058-11. C-201L. Looking down and to port through 1st platform hatch at frame 146 into 5" handling room C-301M showing disarrangement of projectile stowage.

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AB-CR-234-4061-8. Forward fireroom, B-1-1, buckled face plate on No. 1 boiler, looking to port near keel.

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AB-CR-234-4064-8. Bracket failure in after engine room at connection with main throttle manifold.

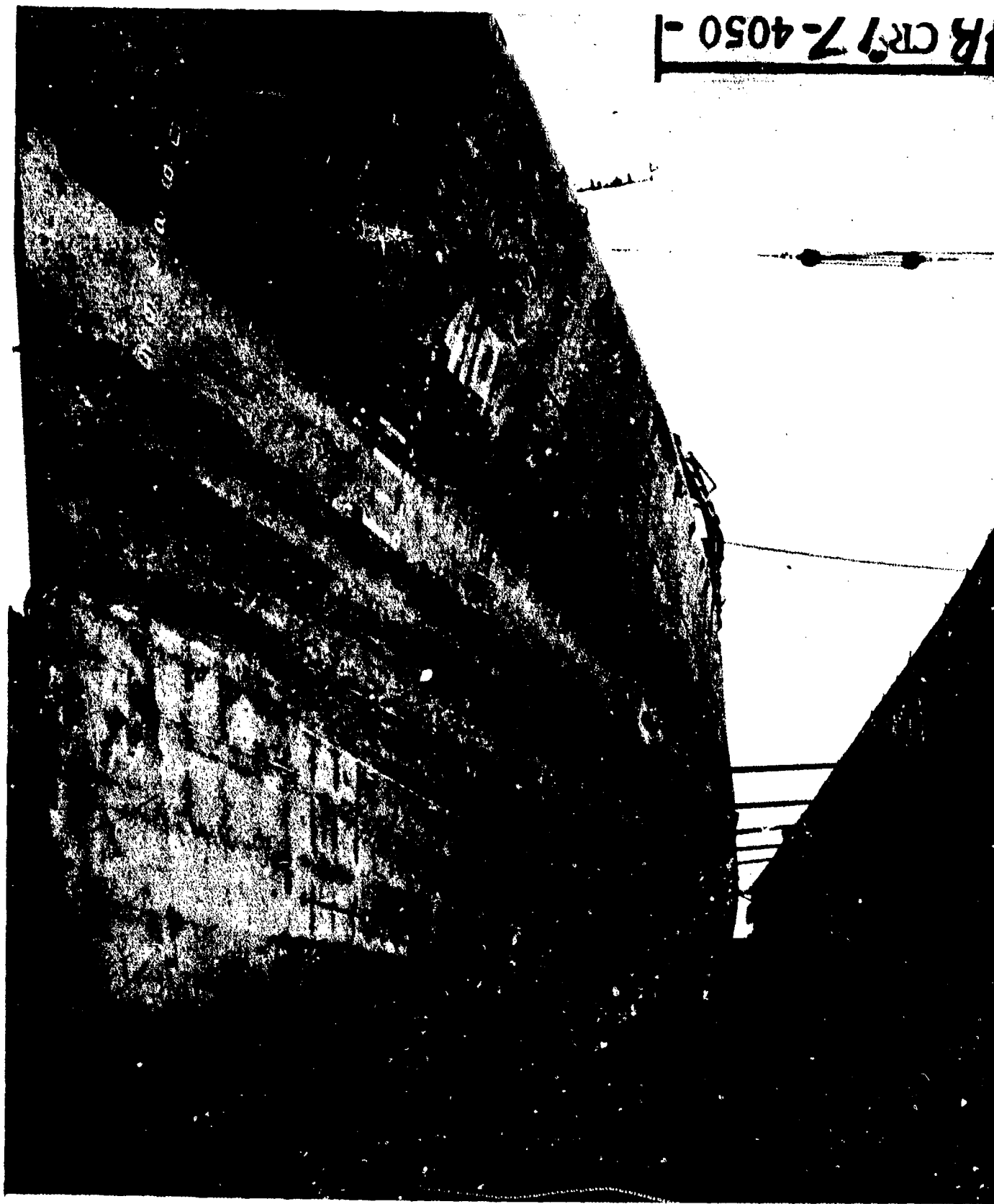
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AB CR 97-4050-1



AB-CR-97-4050-8. Port bow looking aft, showing "washboarding" of underwater shell.

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AB-CR-82-4223-12. General view of damage to lower shell plating, starboard side, looking forward.

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AB-CR-97-4044-12. Port shell looking aft from bow.

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AB-CR-234-4062-5

AB-CR-234-4062-5. Port shell looking aft from bow.

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AB-CR-97-4048-2. Port bottom shell looking aft, frames 20-40, sound ranging dome shown in 4048-1 appears at lower left.

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AB-CR-234-4062-4. Port shell, frame 26 to 28, stress patterns in B-strake. Refer to 4050-9.

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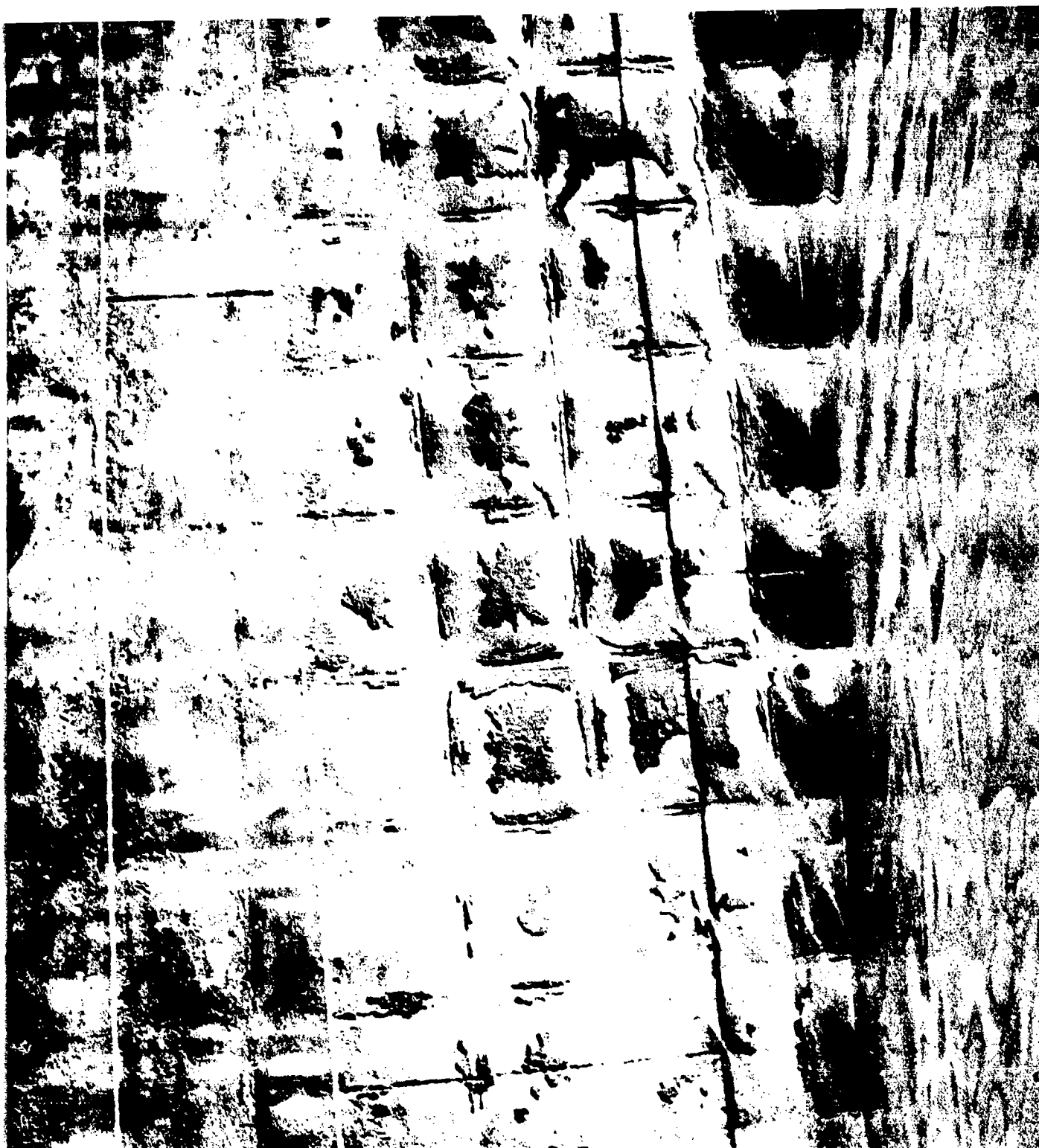
AB-CR-97-4058-1. Starboard shell looking aft from bow.

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AB-CR-82-4224-2. Dishing due to combination of underwater pressure and grounding, starboard shell plating, frames 0 to 10.

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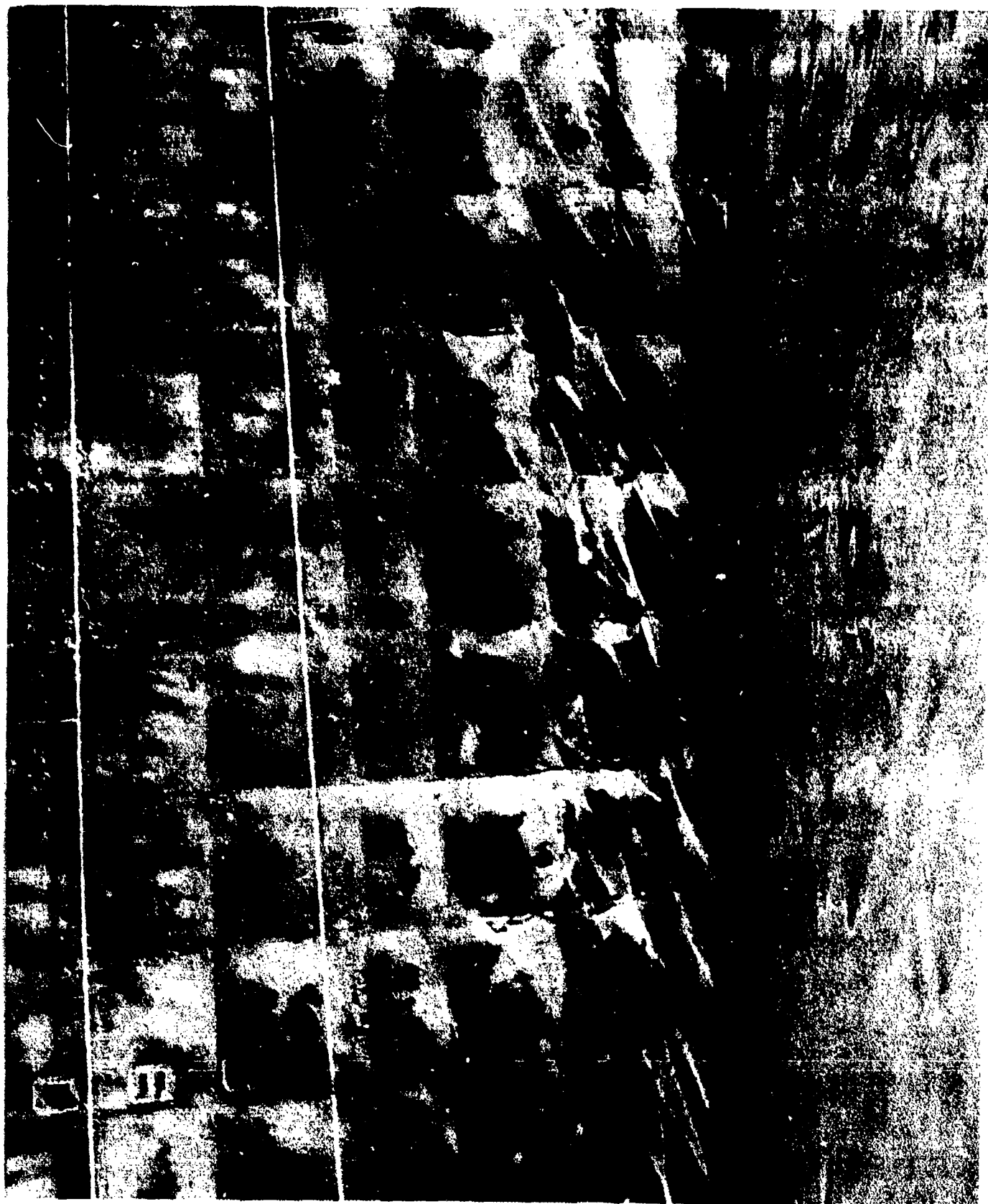
AB-CR-97-4050-7. Starboard bottom shell, details of stress cracks in paint, frame 12, B-strake, (4050-6).

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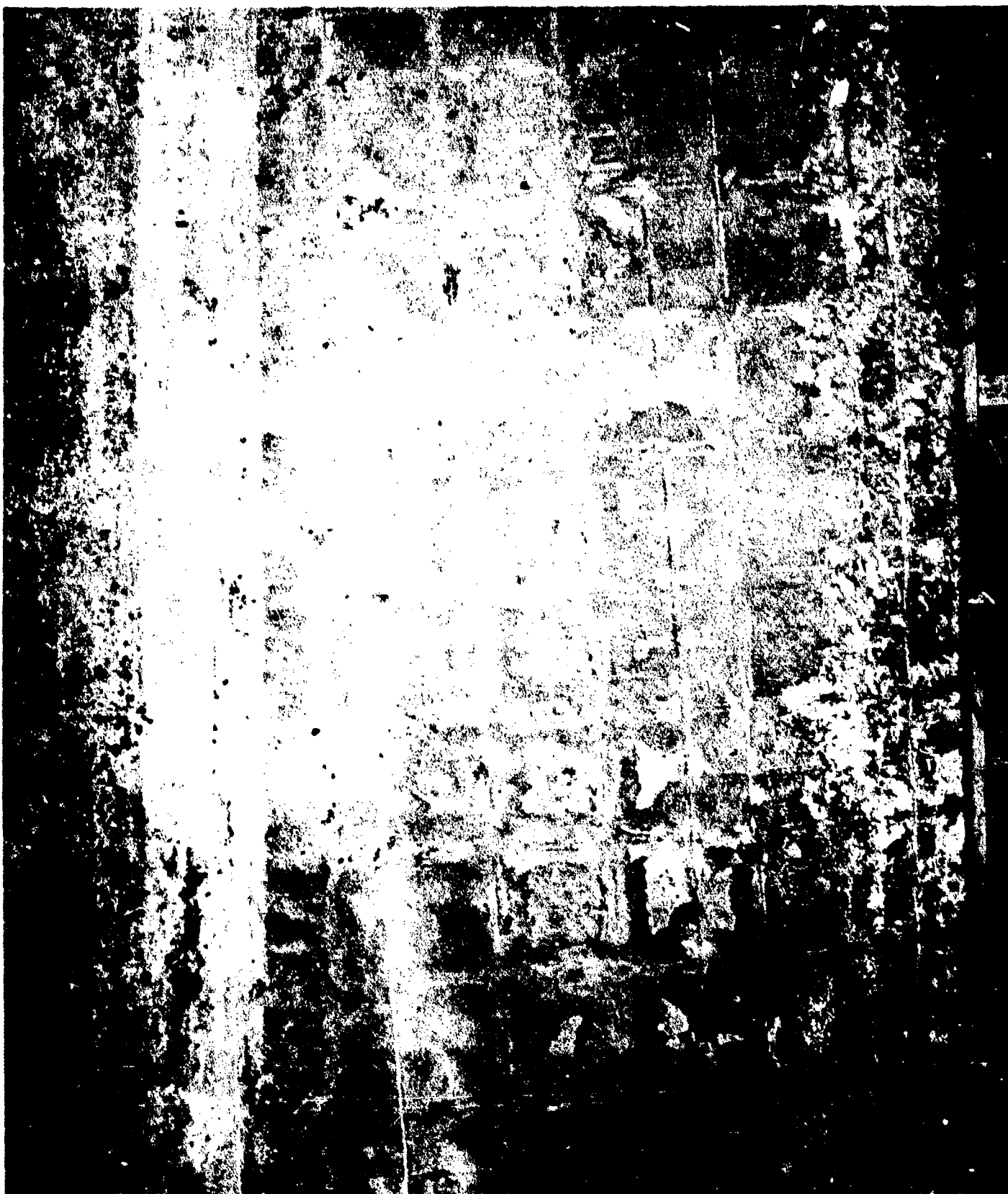
AB-CR-82-4224-1. Shell plating in way of grounding damage, starboard side frames 10 to 20. (Refer to 4224-2)

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AB-CR-97-4050-6. Starboard bottom shell looking inboard at frame 12, in way of garboard strake. (4050-7)

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AB-CR-97-4050-4. Starboard bottom shell looking inboard at frame 30 in way of garboard strake. This area was badly dished during grounding.

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AB-CR-97-4050-5. Starboard bottom shell looking inboard at garboard strake frame 18-28.

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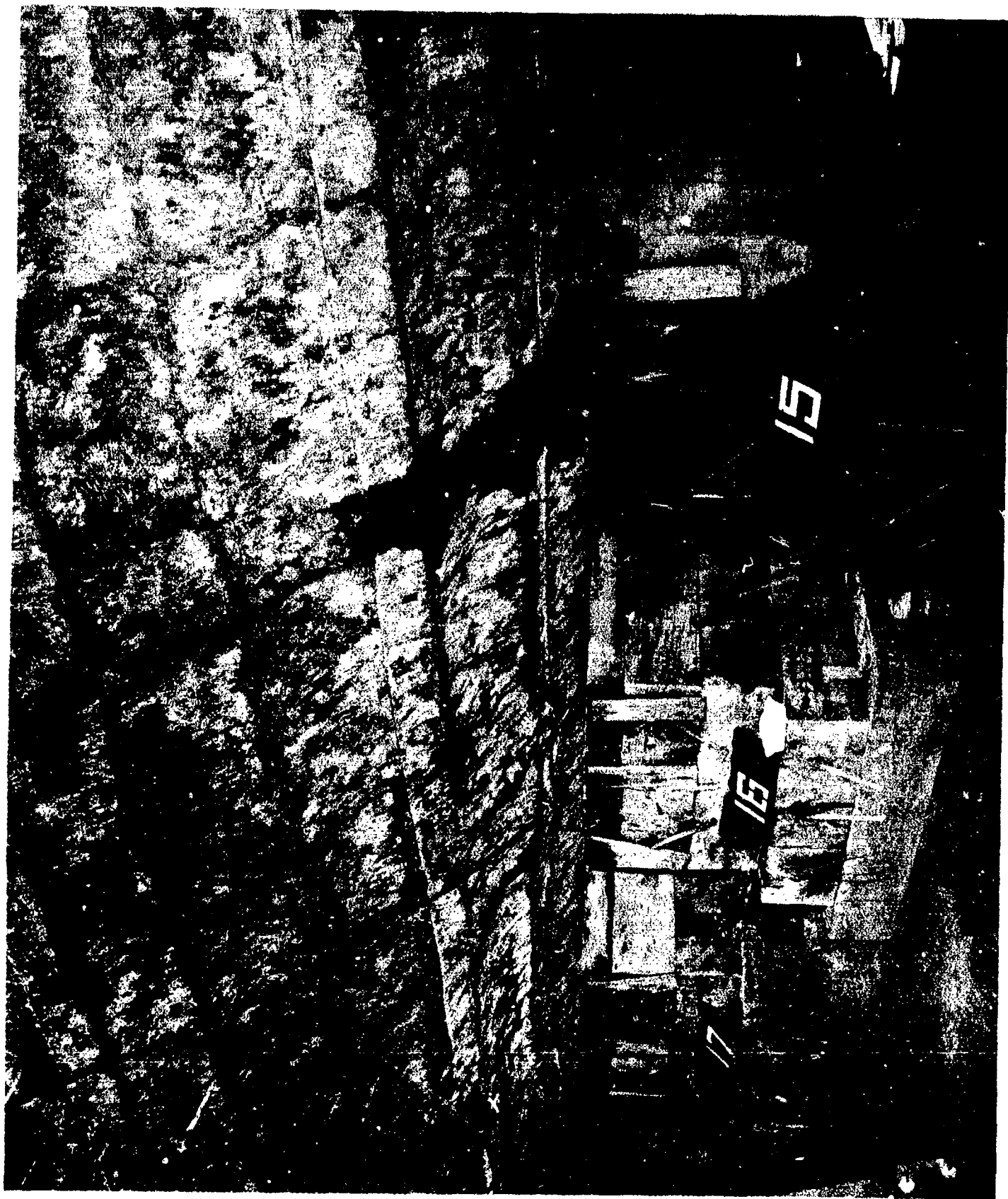
AB-CR-97-4057-11. Starboard shell looking forward, frames 50-30.
(Shell leak being caulked.)

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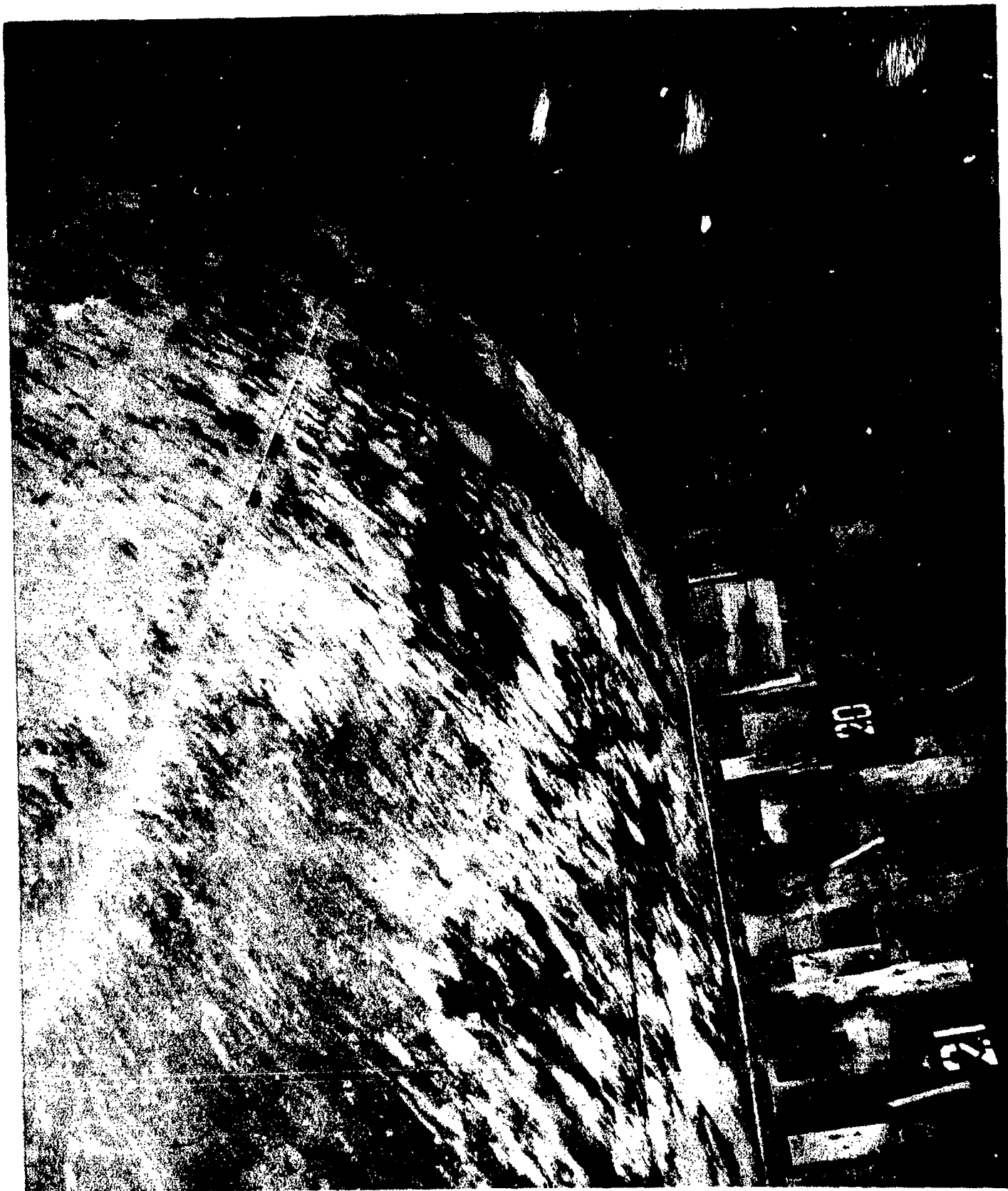
AB-CR-97-4050-3. Starboard bottom shell looking inboard and aft, frames 36 to 40, in way of severe grounding damage superimposed upon washboarding due to underwater shock wave.

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AB-CR-97-4050-2. Starboard bottom shell looking forward from frame 55.

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AB-CR-82-4223-10. Starboard shell in way of frame 50. Note leak in lap seam just above water level at frame 51.

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AB-CR-82-4224-3. General view of starboard shell plating. Note small leak in center of photo (frame 50).

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AB-CR-97-4050-10. Port shell looking aft, frames 40-60.

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AB-CR-97-4048-3. Port shell looking aft, frames 40-60.

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AB-CR-97-4048-4. Port bottom shell looking aft, frames 65-68, note white coral sand imbedded in paint along garboard strake due to grounding.

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AB-CR-97-4048-5. Port bottom shell looking aft, frames 75-80.

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AB-CR-97-4048-6. Port bottom shell looking aft, frames 85-90.

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AB-CR-234-4062-3. Looking forward along port side showing buckles in shell plating above bilge keel.

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AB-CR-97-4048-7. Port bottom shell looking aft, frame 99-102.

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AB-CR-97-4048-8. Port bottom shell looking aft, frames 105-110.

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AB-CR-97-4048-9. Port bottom shell looking aft, frames 115-120.

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AB-CR-97-4048-11. Port bottom shell looking aft, frames 128-133, note longitudinal dishing.

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AB-CR-97-4048-12. Port bottom shell, looking inboard between frames 132-138, keel appears along lower edge of picture.

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AB-CR-97-4057-10. Starboard shell looking forward, frames 75-50.

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AB-CR-97-4050-1. Starboard bottom shell looking inboard and aft at frame 70.

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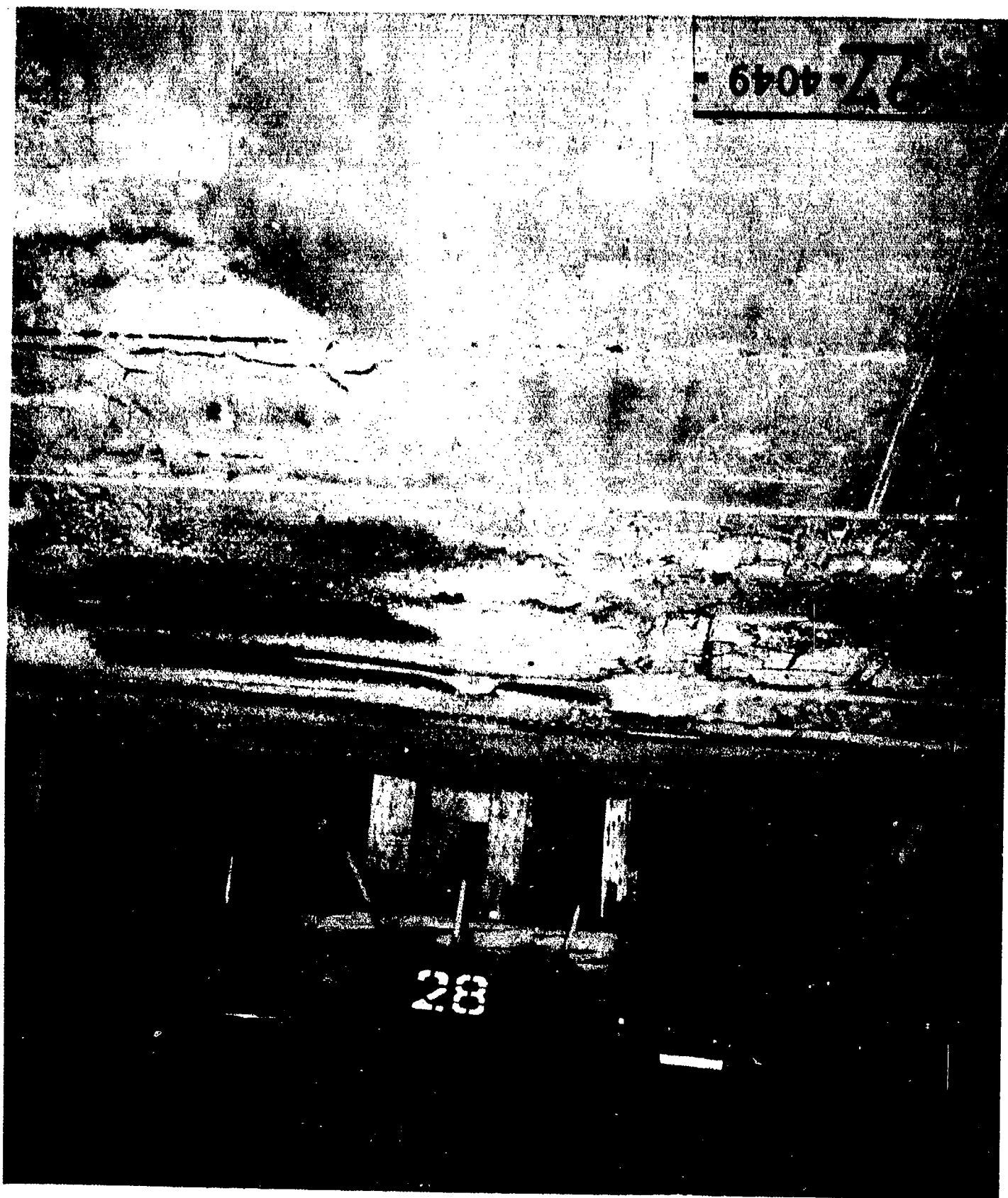
AB-CR-97-4049-12. Starboard bottom shell, looking inboard at frame 78. Note longitudinal dishing, probably due to grounding damage.

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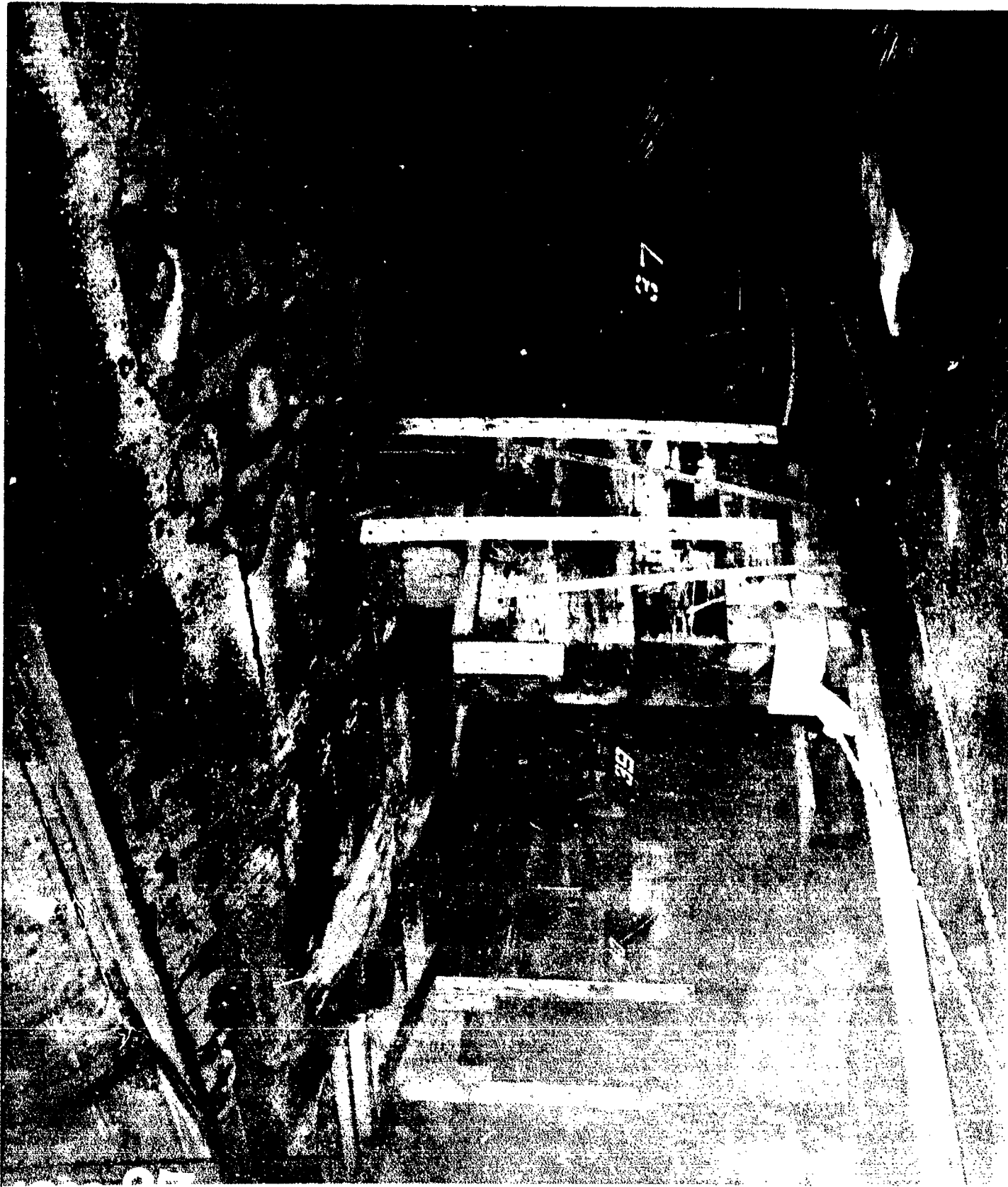
AB-CR-97-4049-11. Starboard bottom shell, looking inboard at frame 82 grounding damage.

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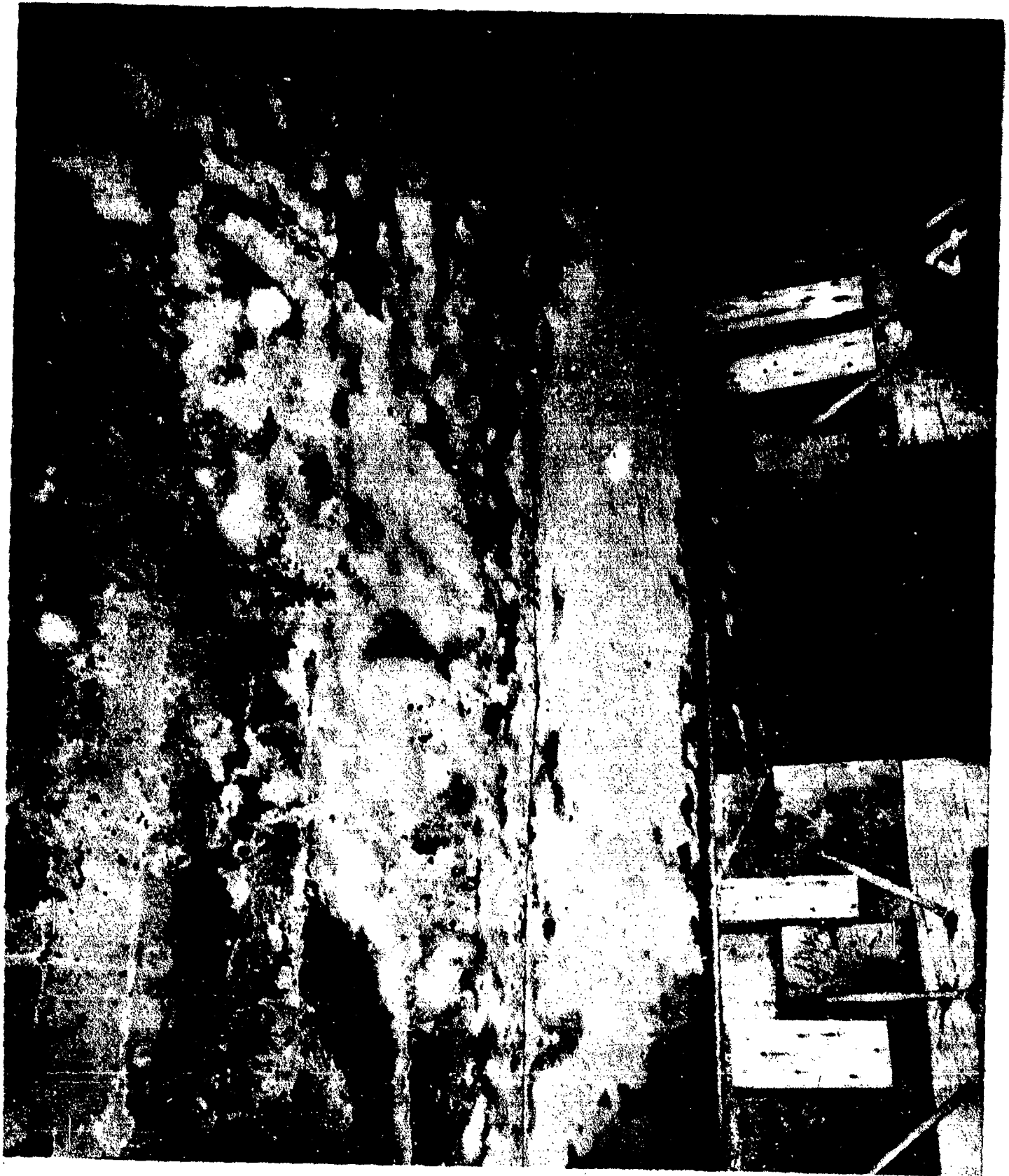
AB-CR-97-4049-9. Starboard bottom shell, looking inboard and aft, frames 108-120. The right half of B strake is dimpled and the plastic coating has been worn off in contact with the coral during grounding.

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AB-CR-97-4049-7. Starboard bottom shell, looking inboard between frames 125-130.

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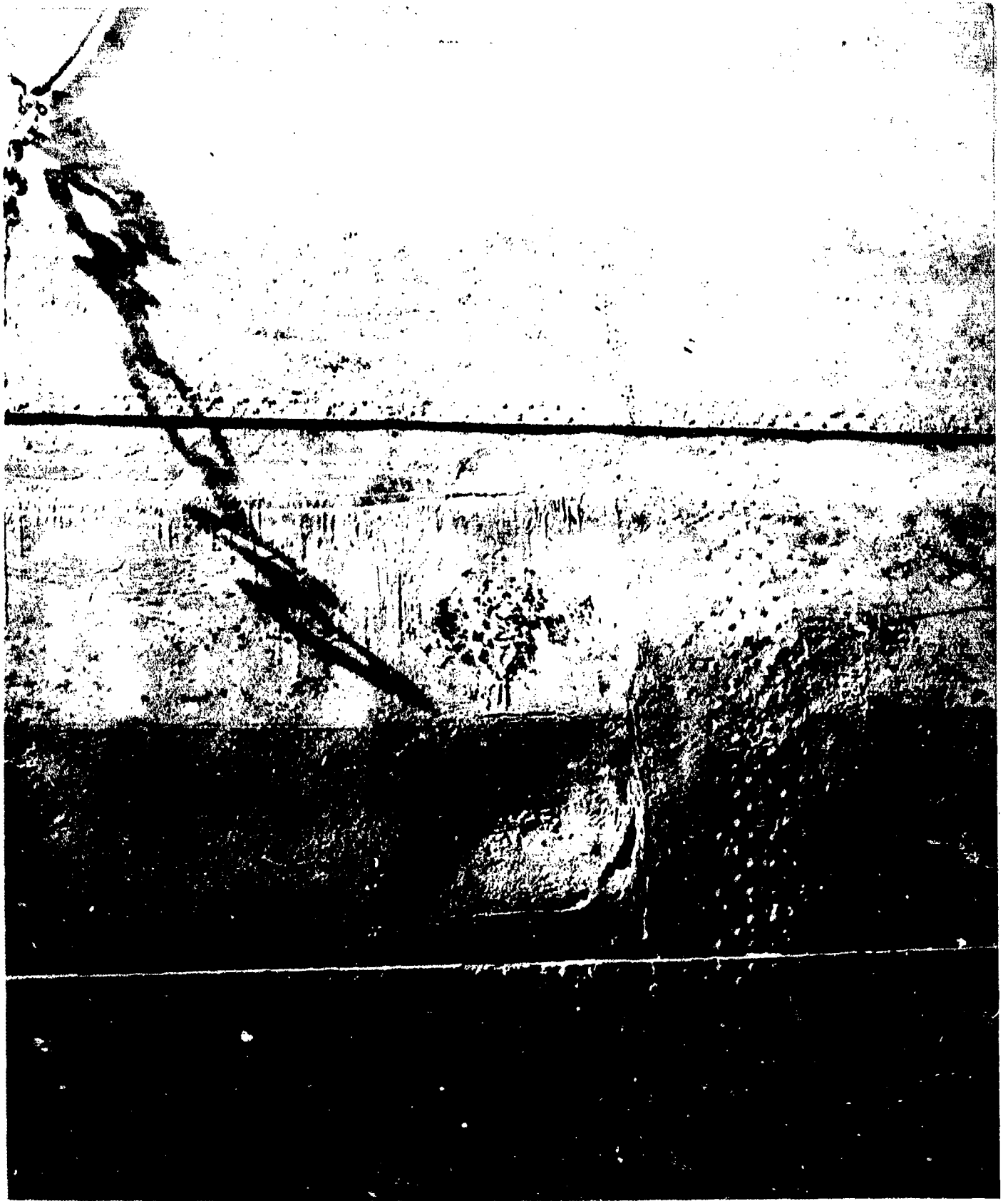
AB-CR-97-4049-6. Starboard bottom shell, looking inboard between frames 132-135.

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AB-CR-82-4224-5. Close-up of dished panel between 138 and 139, star-board shell plating.

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AB-CR-4057-3. Port shell looking aft, frames 140 to stern.

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AB-CR-97-4049-1. Looking aft along port bottom shell from frame 150.

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AB-CR-97-4057-4. Port shell and transom, looking forward from astern. Note dishing between longitudinals.

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AB-CR-97-4057-6. Starboard shell, looking forward, frames 150-130.

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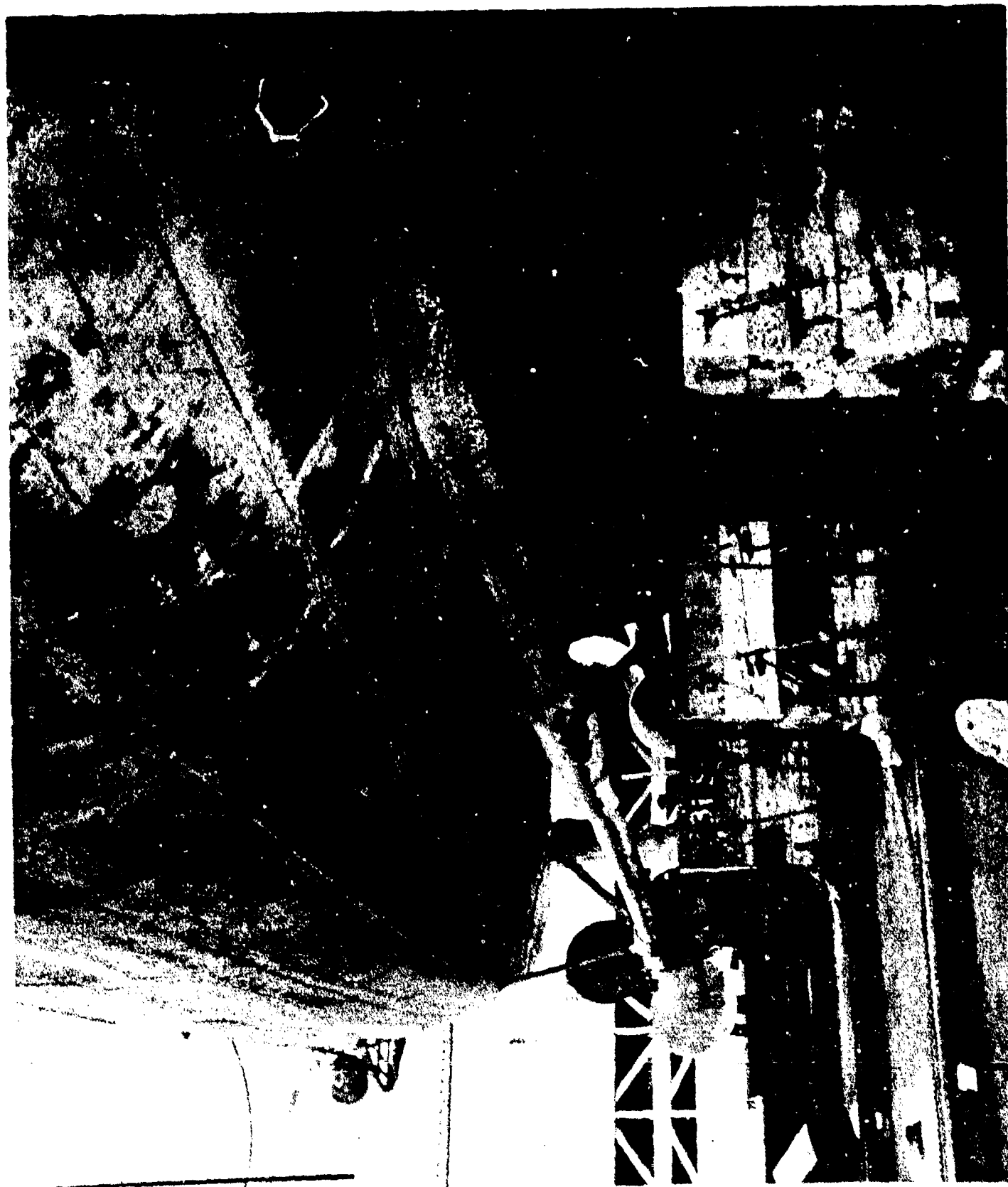
AB-CR-97-4049-5. Starboard bottom shell, looking aft from frame 140.

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AB-CR-97-4049-3. Looking aft along starboard bottom shell from frames 140. Note small leak in plate butt of D strake, just above end of stern tube.

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AB-CR-97-4057-5. Starboard shell and transom, looking forward from astern.

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AB-CR-97-4048-1. Damage to sound ranging dome projecting through keel, looking to starboard from frame 22.

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AB-CR-82-4224-10. Close-up showing leakage in way of shell plating seam at starboard corner of transom and dishing of rudder panels.

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AB-CR-97-4049-10. Starboard bottom shell, looking forward from Frame 90 along garboard strake, note white coral sand imbedded in paint during grounding.

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AB-CR-97-4049-8. Starboard bottom shell, looking forward, frames 110-115.

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AB-CR-234-4062-2. Vertical crack approximately 6 inches long in starboard shell plating just forward of rudder post. Frame 189 starboard.

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97-4049-6401



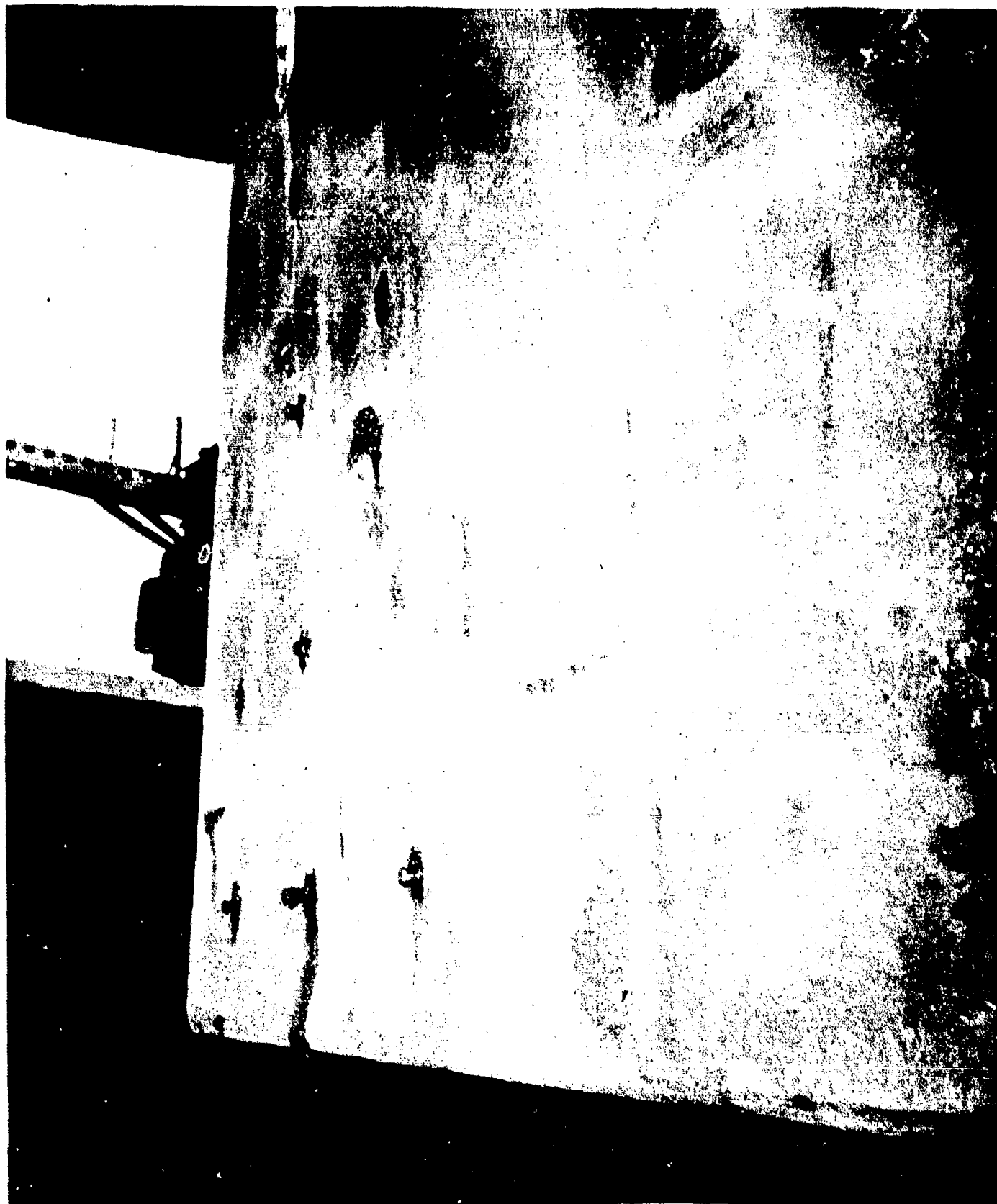
AB-CR-97-4049-4. Leak at butt joint in shell, lower edge of D strake, frame 142, starboard shell, looking up and forward.

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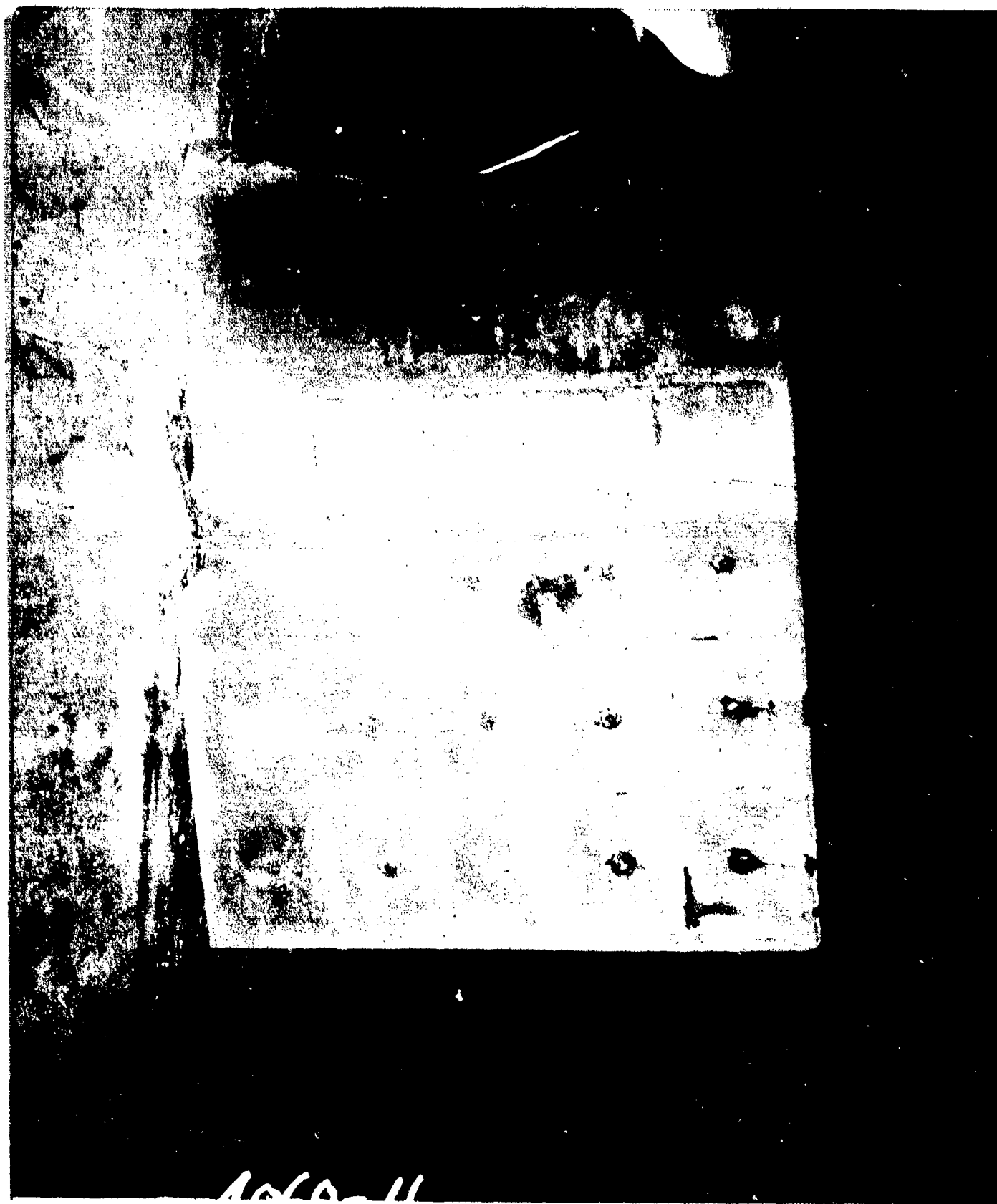
AB-CR-234-4060-10. Starboard side of rubber looking aft. Note panel dishing and failure of panel stud welds.

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AB-CR-234-4060-11. Starboard side of rudder looking to port.

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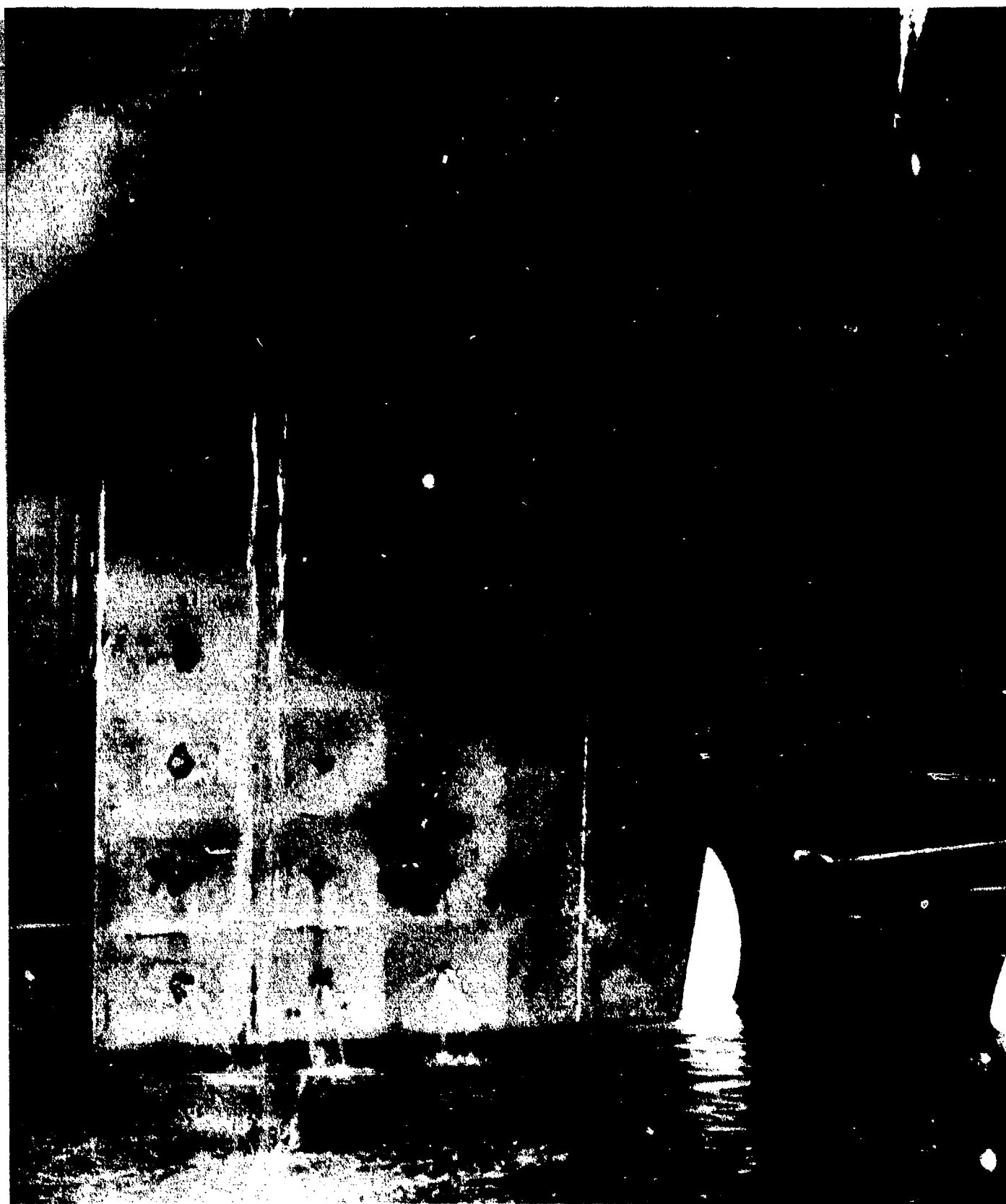
AB-CR-234-4060-12. Starboard side of rudder, hole in way of transom knuckle, and plugged hole in transom above water line.

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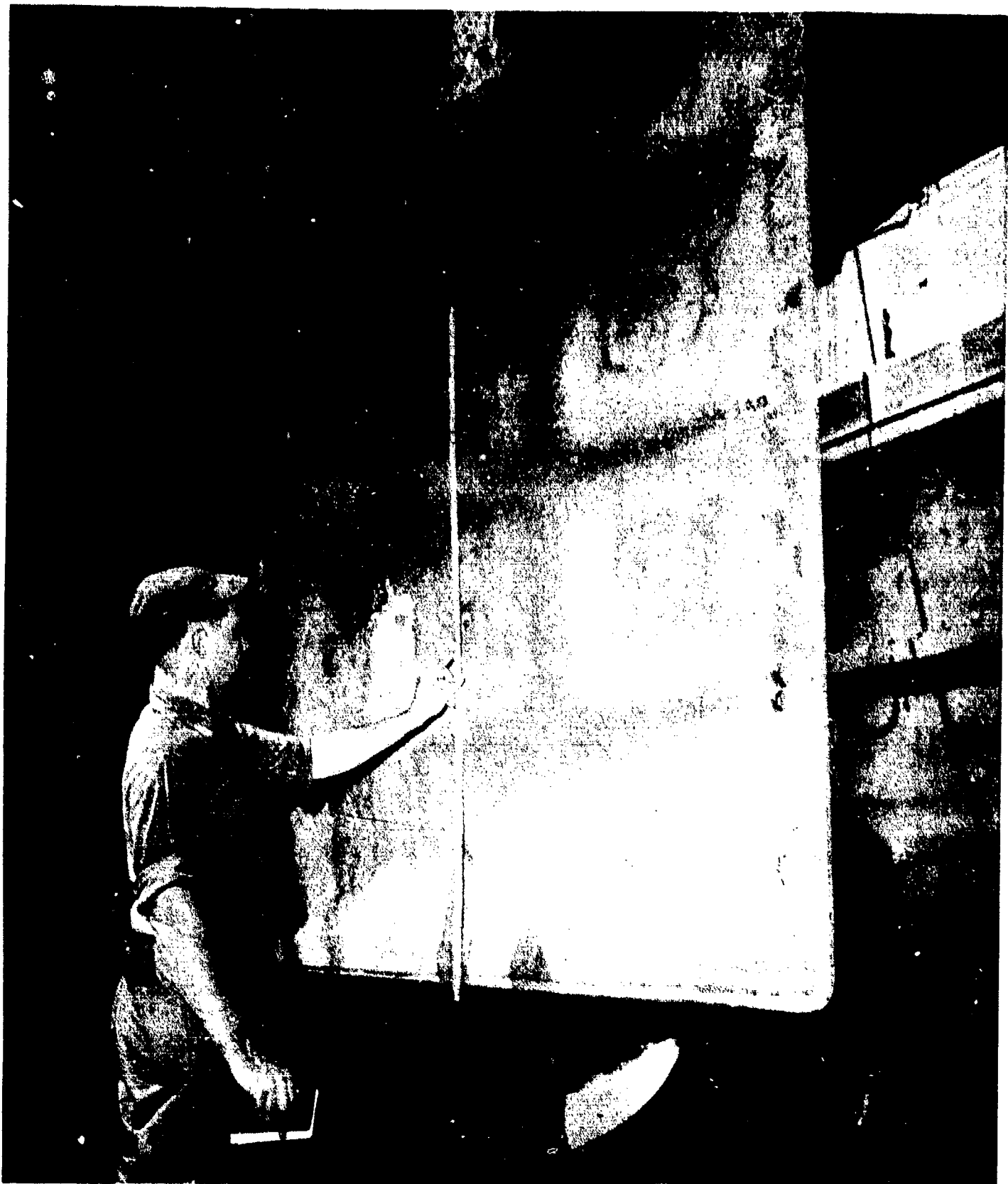
AB-CR-82-4224-9. Close-up showing leakage in way of shell plating seam at starboard corner of transom and dishing of rudder panels. (Note separation of panel studs from plating.)

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AB-CR-234-4062-1. Port side of rudder looking forward. Note panel dishing and stress marks in way of panel studs.

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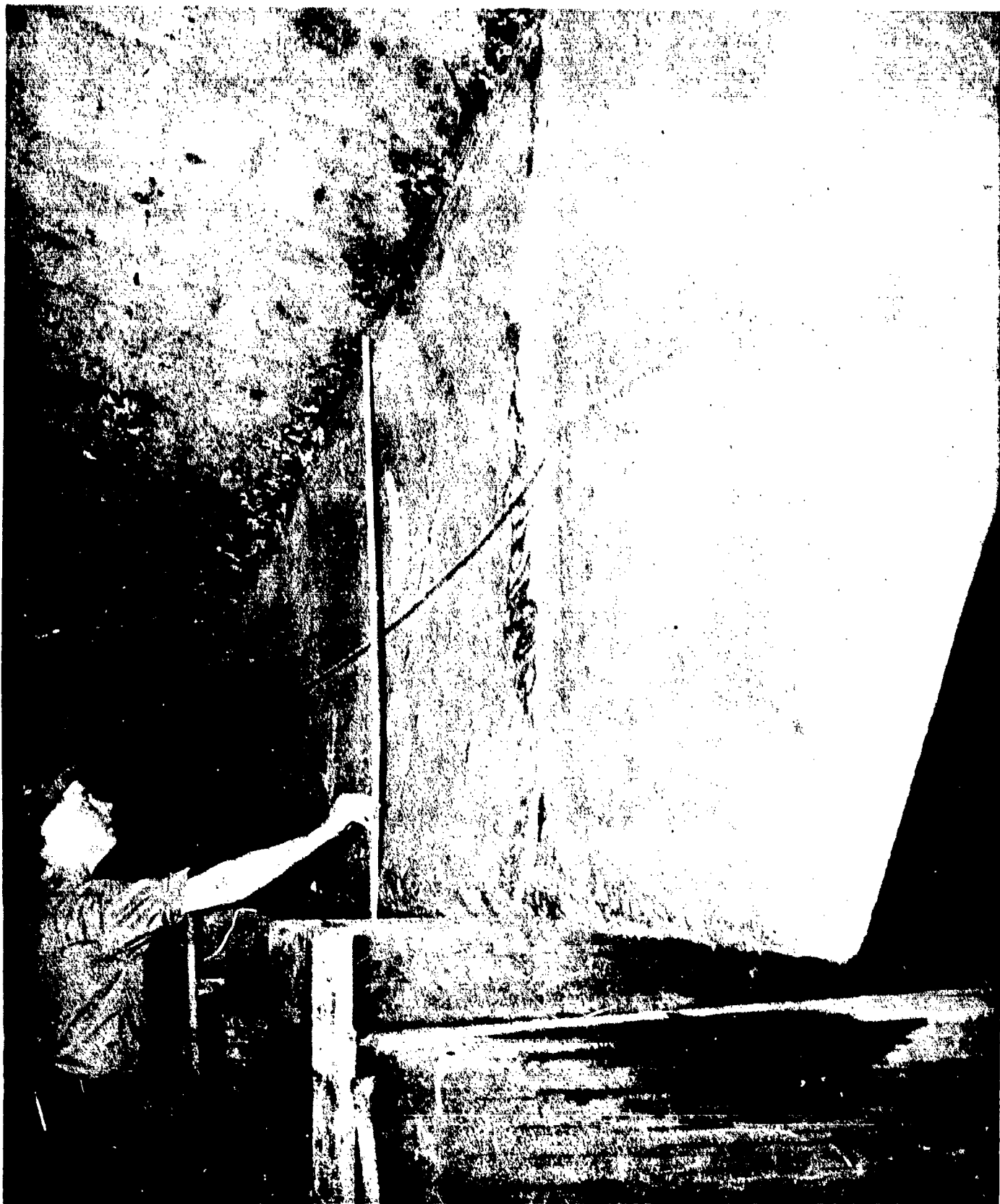
AB-CR-97-4049-2. Port face of skeg, looking aft, frames 160-168.

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AB-CR-234-4060-8. Port side of skeg looking forward. (Note dishing.)

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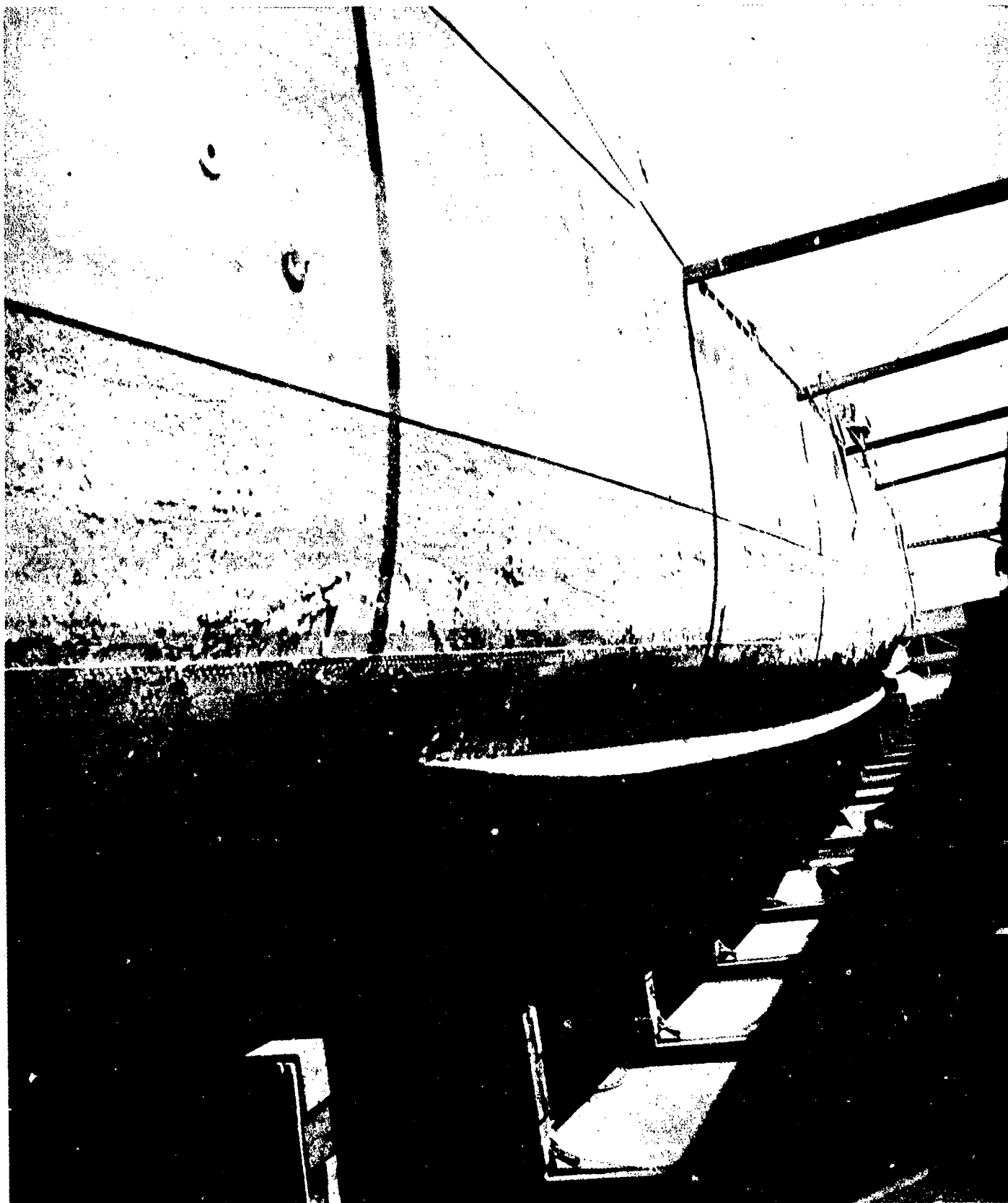
AB-CR-234-4060-9. Starboard side of skeg looking forward (Note dishing).

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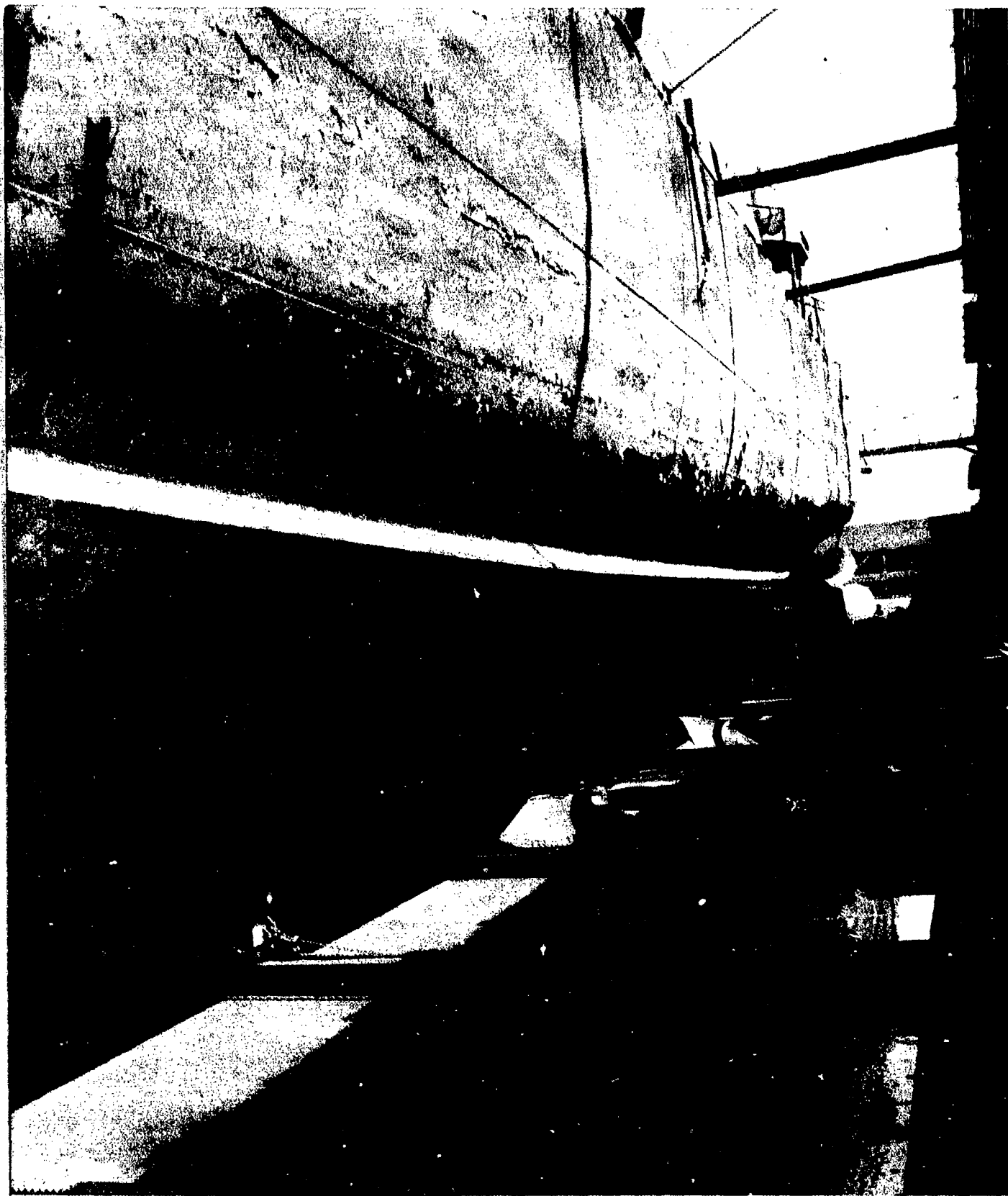
AB-CR-97-4050-11. Port shell looking aft, frames 60-90.

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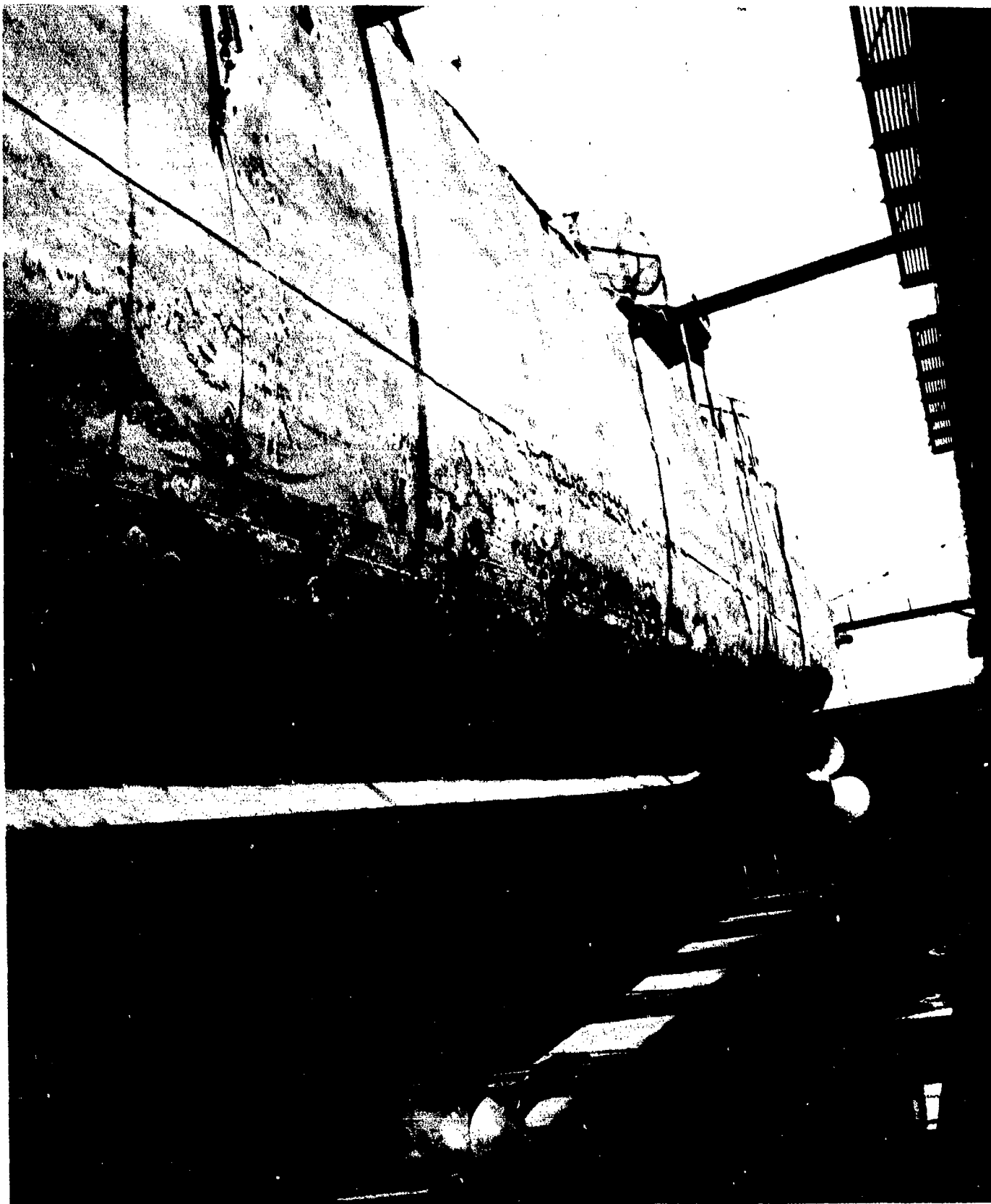
AB-CR-97-4050-12. Port shell looking aft, frames 80-110.

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AB-CR-97-4057-1. Port shell looking aft, frames 100-130.

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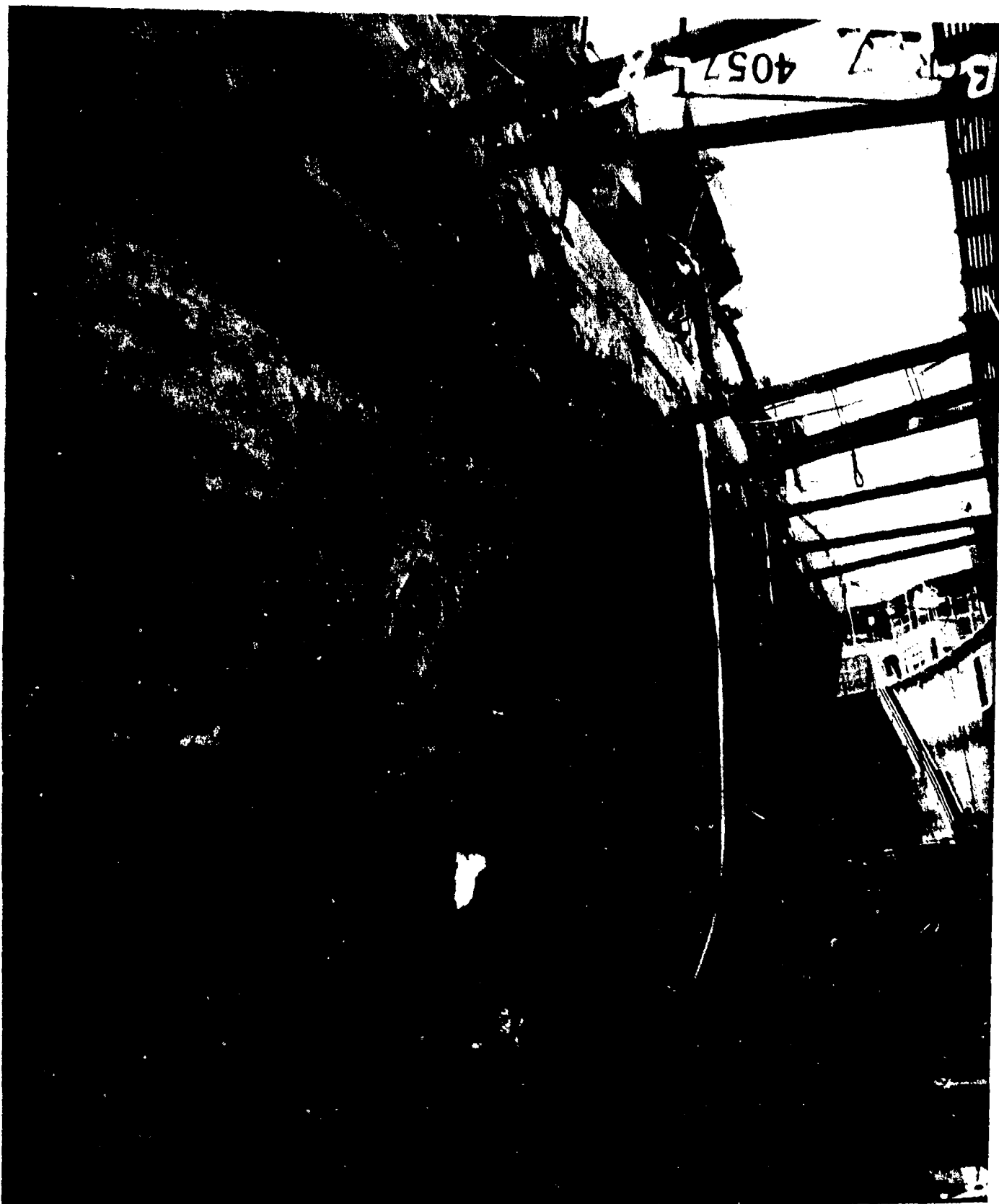
AB-CR-97-4057-2. Port shell looking aft, frames 120-140.

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AB-CR-97-4057-8. Starboard shell looking forward, frames 180-120.

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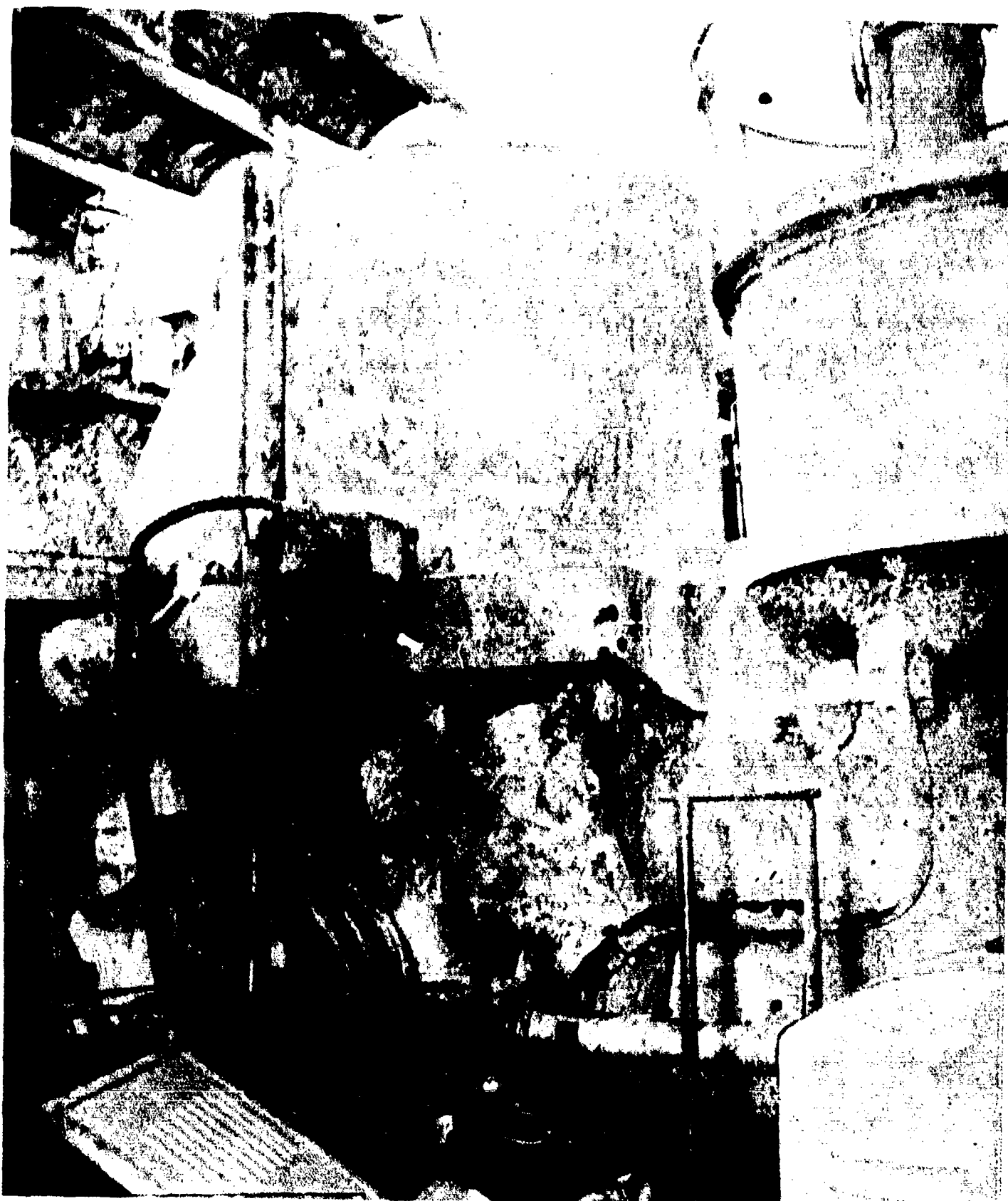
AB-CR-97-4057-9. Starboard shell looking forward, frames 100-50.

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AB-CR-100-4204-8. Looking aft on main deck to forward transverse bulkhead 125 of after deck house showing 40MM director tub port and starboard and damage to tub enclosing after steering station.

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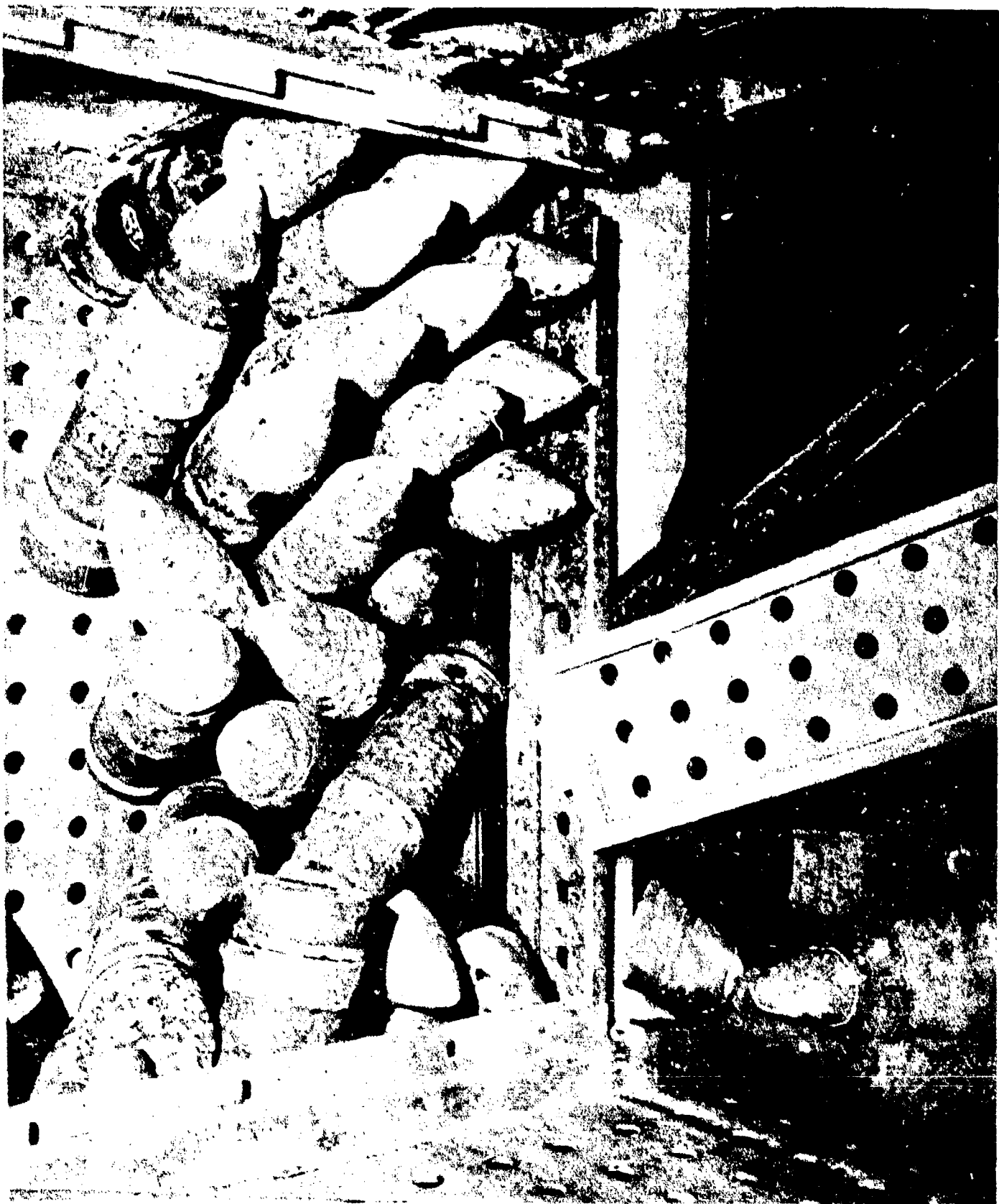
AB-CR-100-4211-2. Displacement of 5 inch ammunition thrown into head, port side from handling room A-104-IMT on main deck, frames 25-33.

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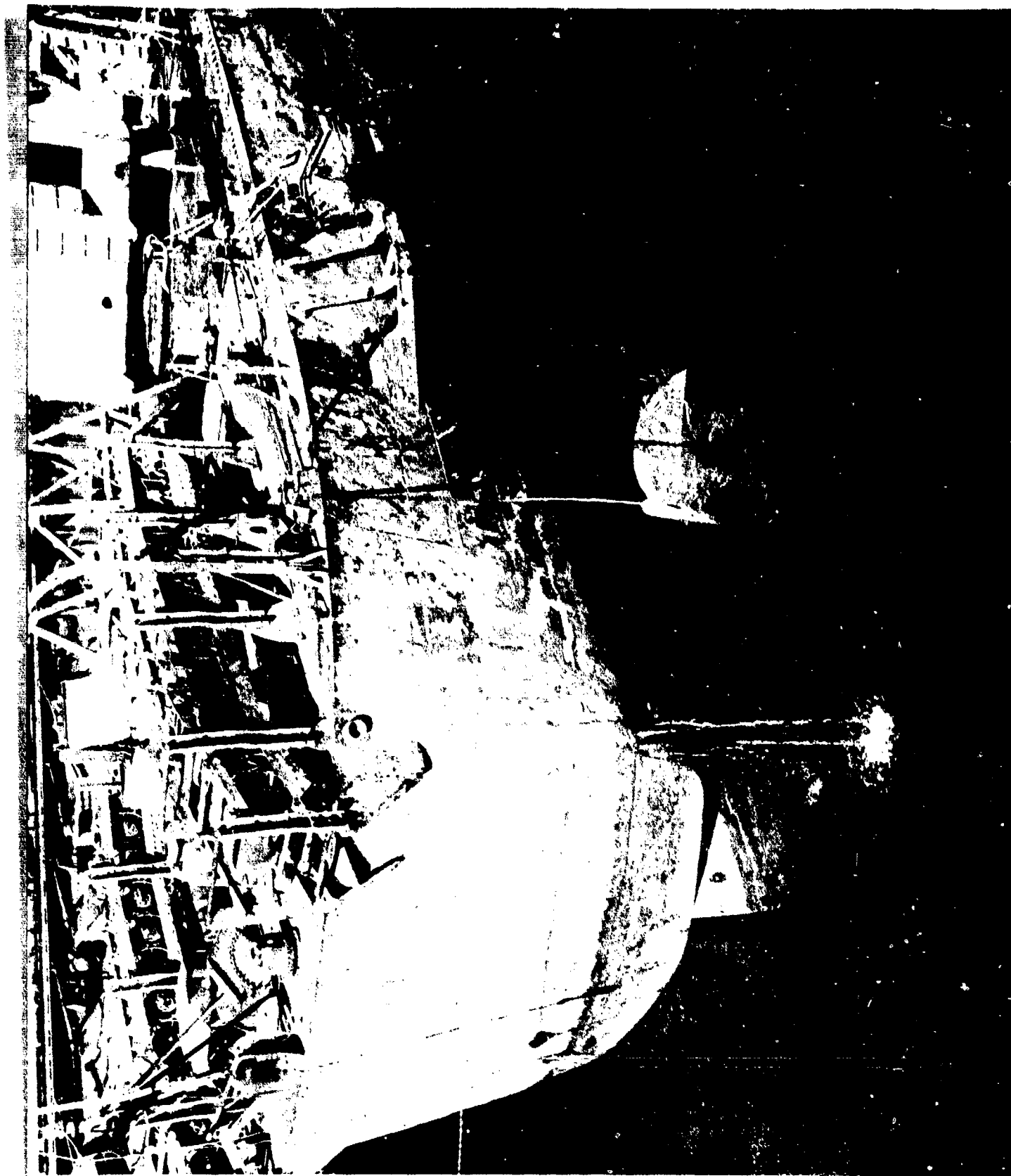
AB-CR-234-4061-6. Disarrangement of projectile stowage handling room (A-0101-M) for 40-46.

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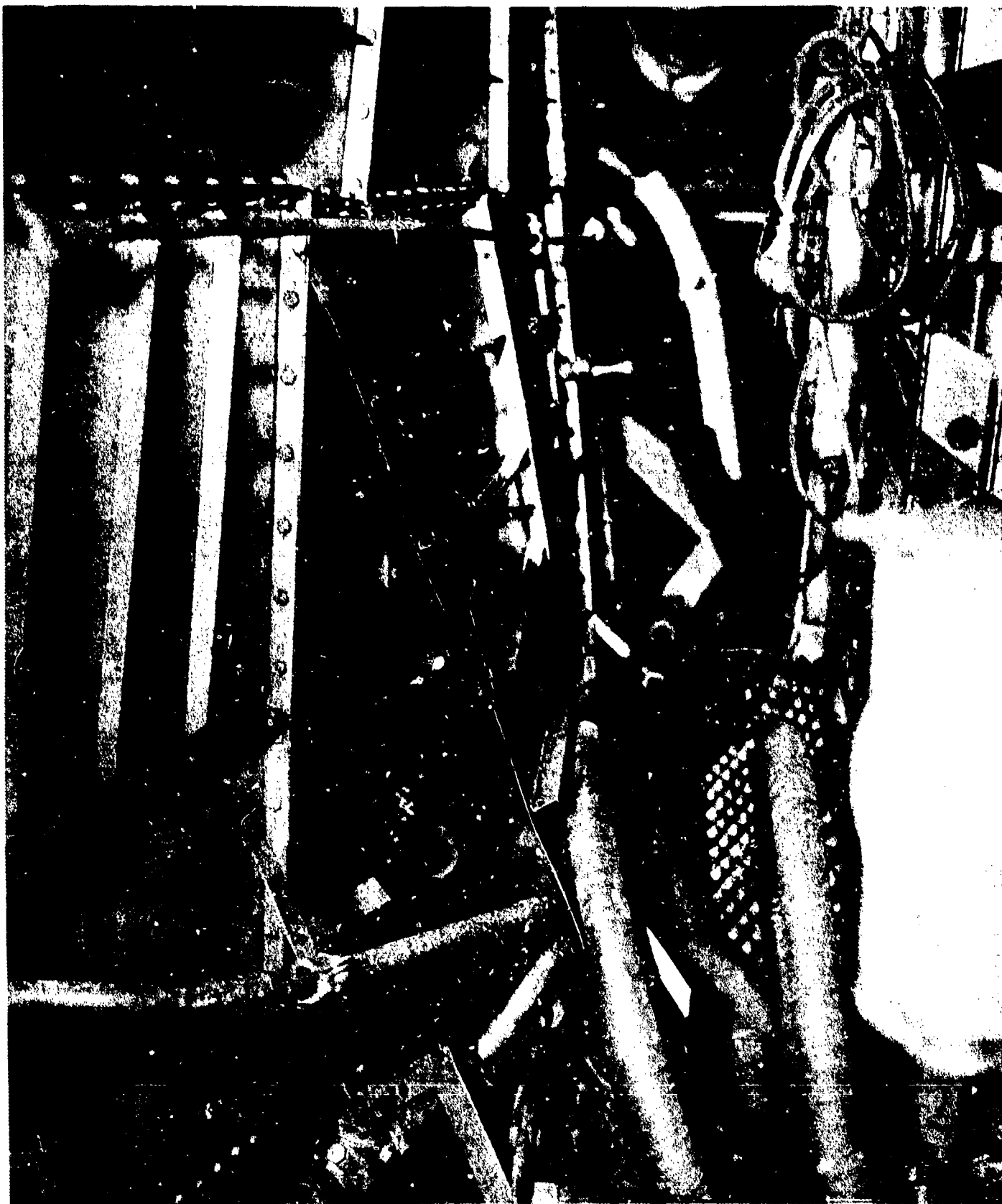
AB-CR-82-4223-11. Close-up showing depth charge racks and leakage in way of shell plating seam at starboard corner of transom.

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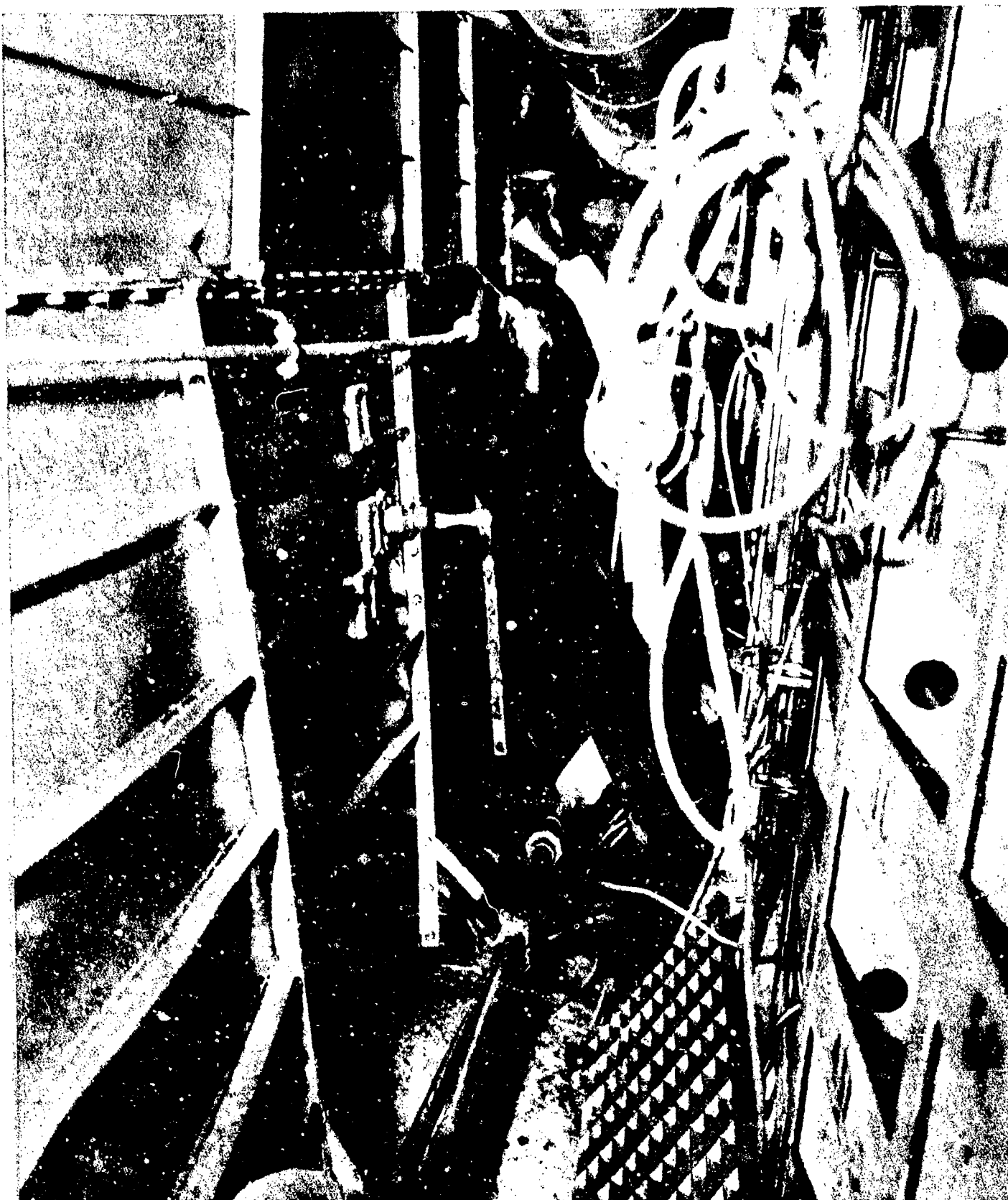
AB-CR-76-2078-4. No. 3 boiler, rear casing.

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AB-CR-76-2078-5. No. 3 boiler, rear casing.

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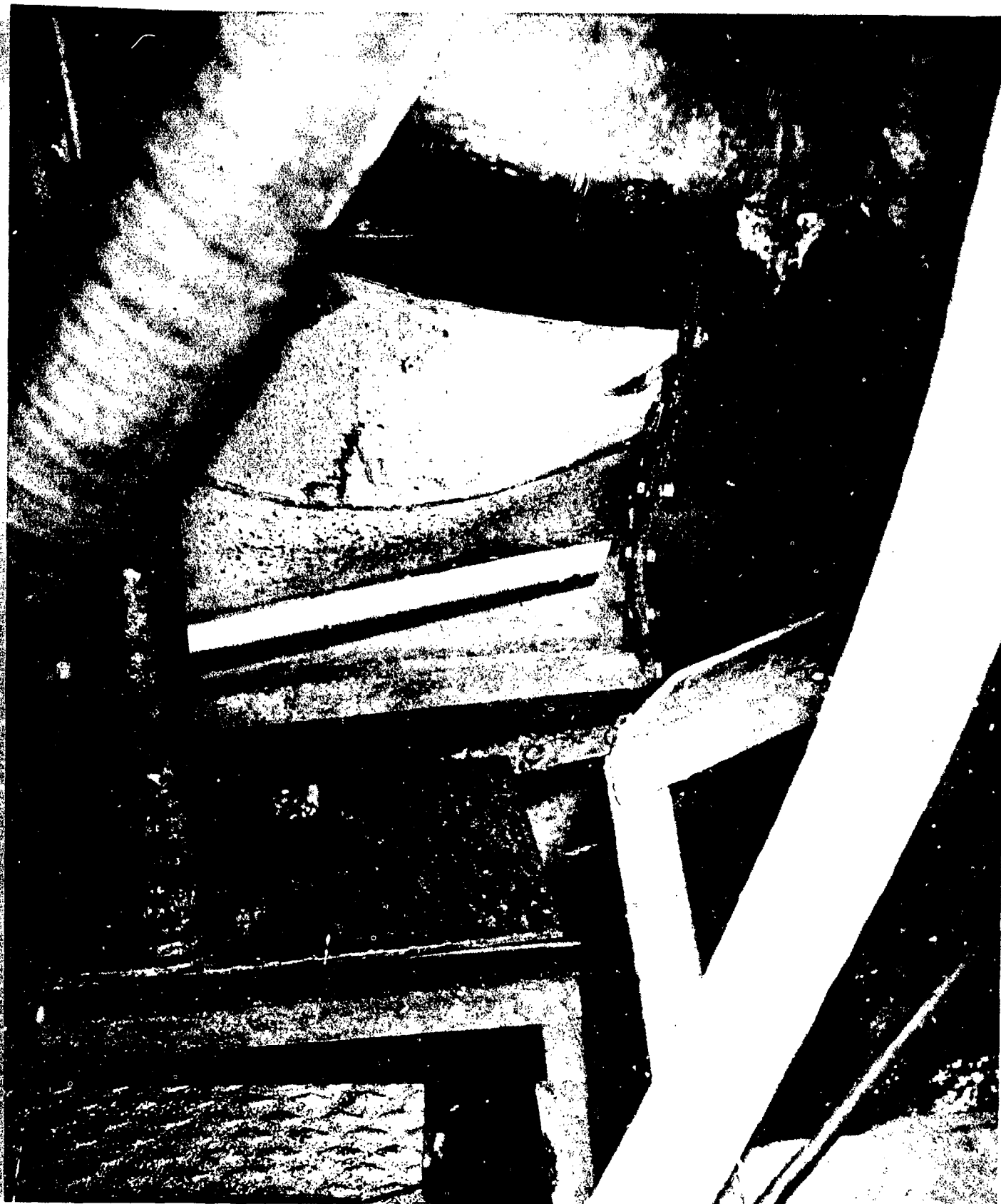
AB-CR-76-2078-6. No. 2 boiler, rear casing.

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AB-CR-76-2076-9. No. 1 boiler, lower front casing, starboard side.

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AB-CR-76-2076-10. No. 2 boiler, lower front casing, starboard side.

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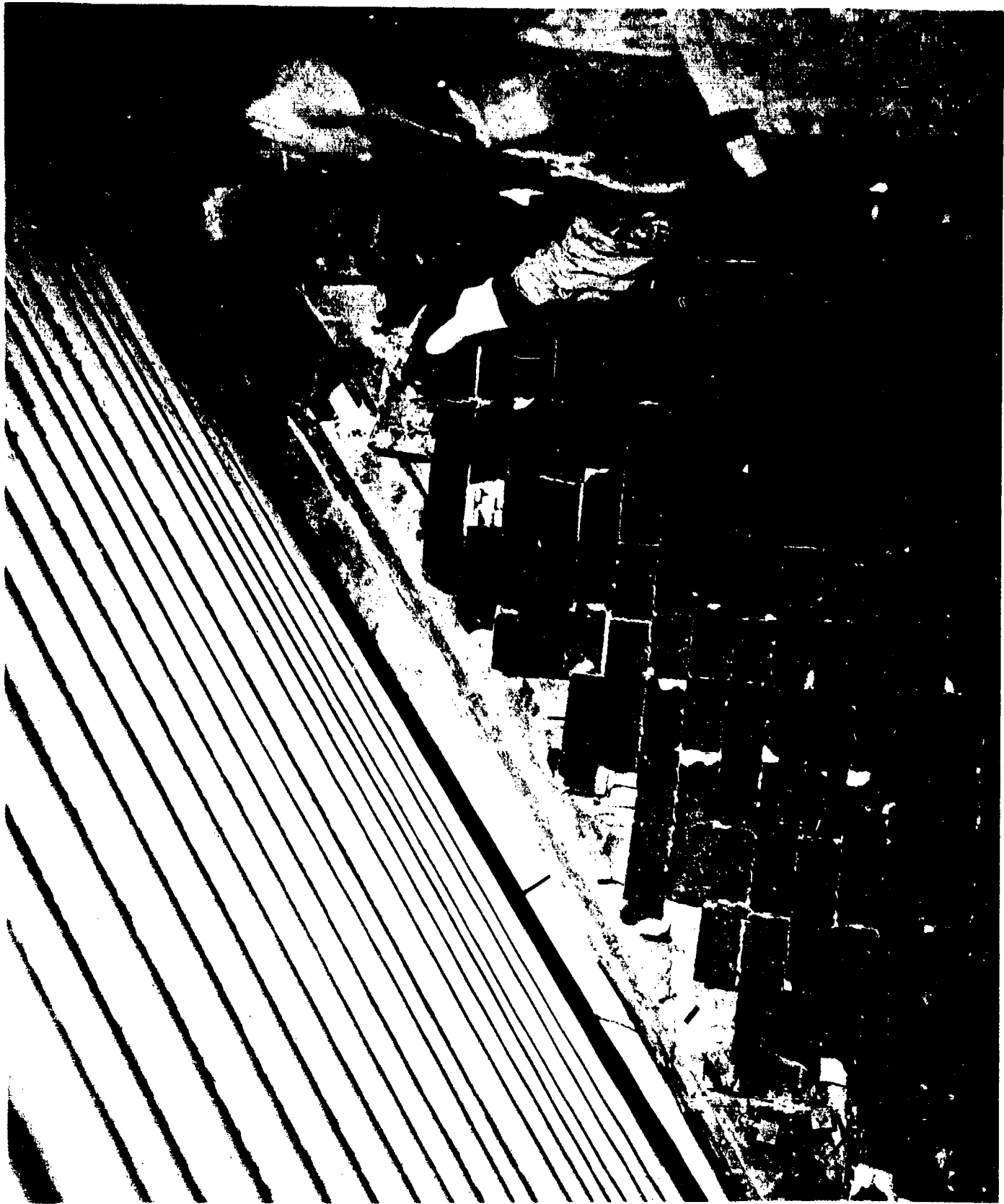
AB-CR-76-2076-1. No. 2 boiler, saturated side furnace, rear outboard corner at water drum.

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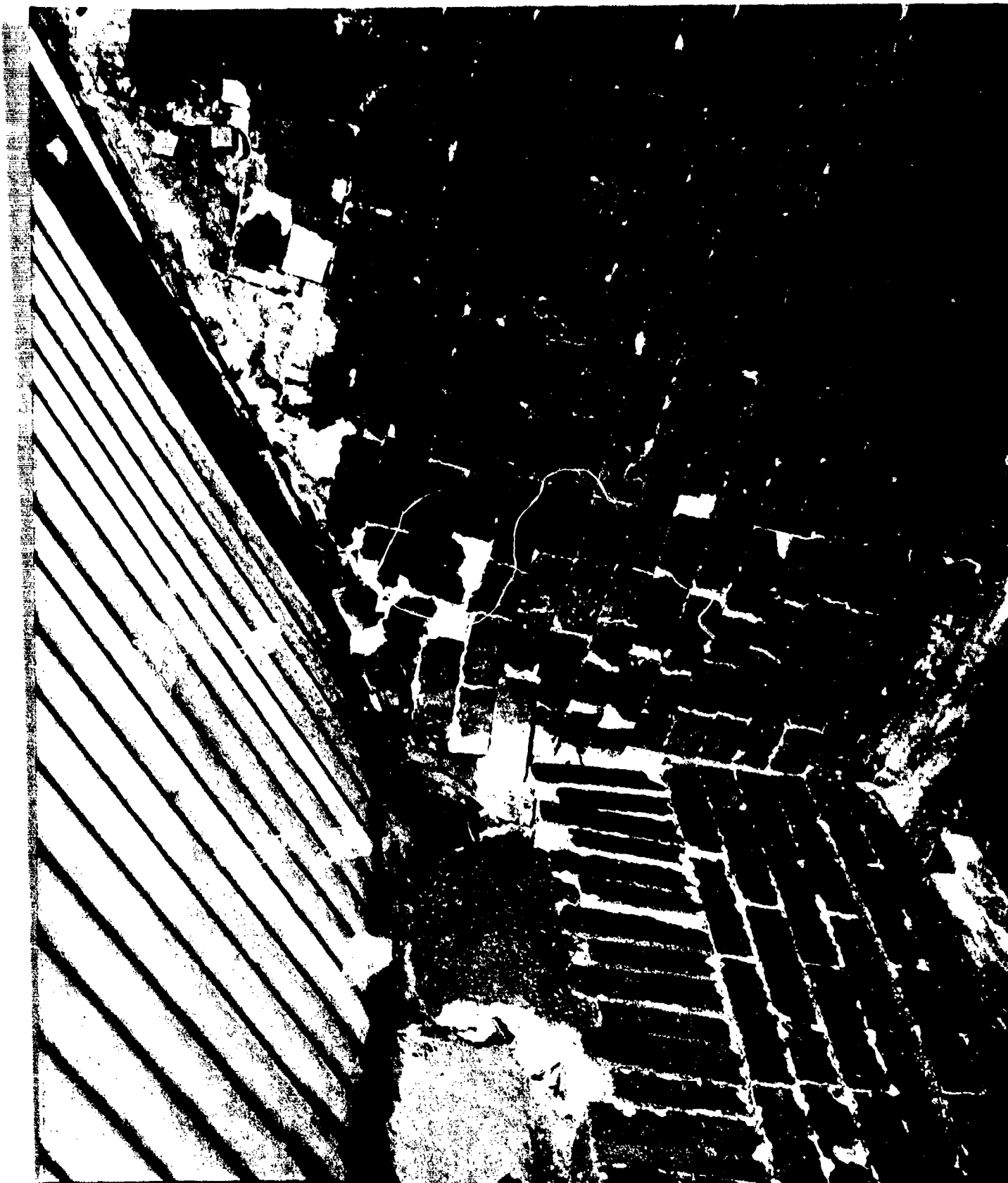
AB-CR-76-2075-7. No. 2 boiler, rear wall on superheater side.

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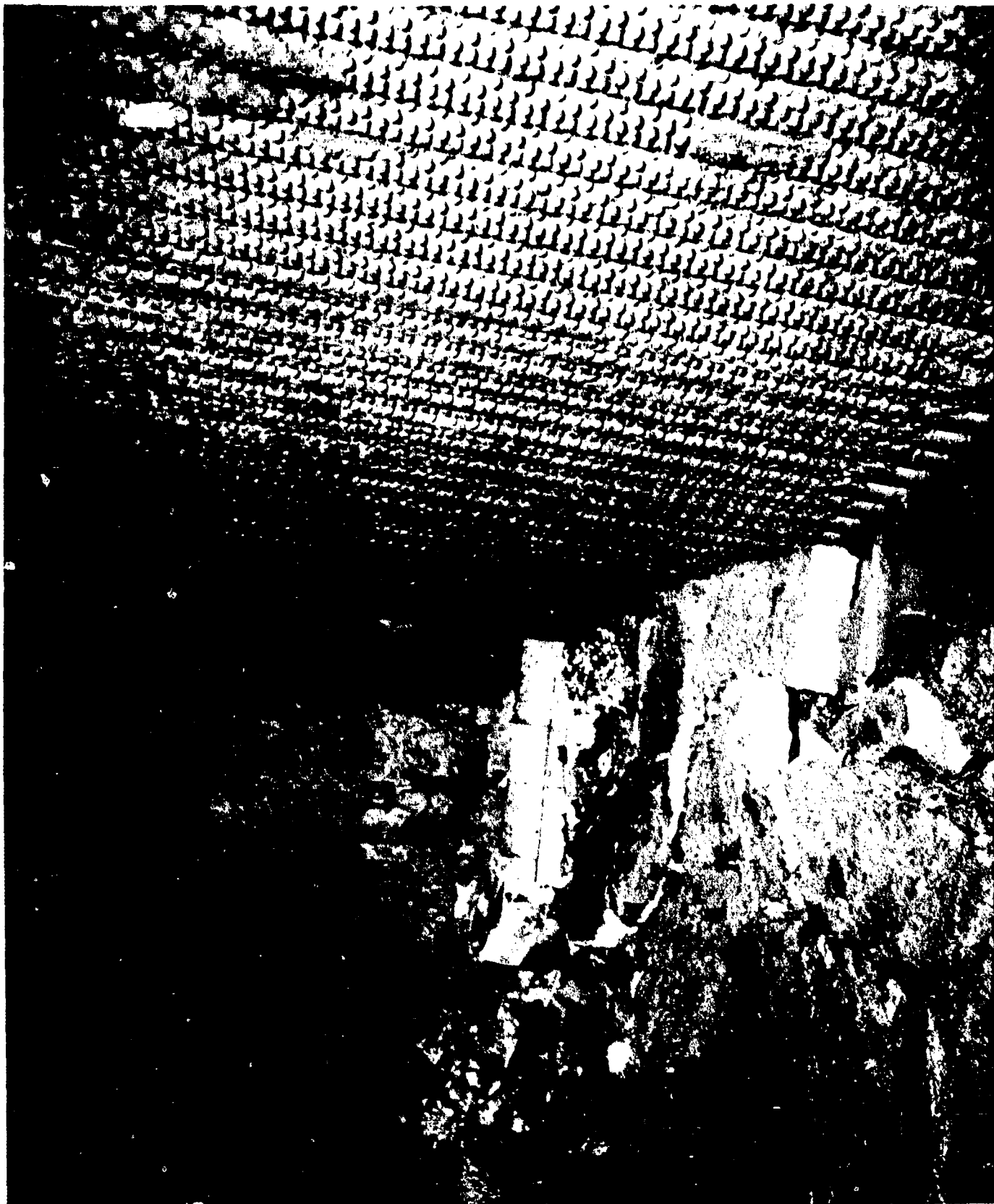
AB-CR-76-2075-8. No. 2 boiler, superheater side furnace, rear outboard corner showing rear and side wall.

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AB-CR-68-2952-1. Interior superheater side No. 1 boiler.

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AB-CR-76-2076-3. No. 2 boiler, saturated side furnace, floor at rear inboard corner.

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AB-CR-76-2076-4. No. 2 boiler, saturated side furnace, brickpan at division wall.

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AB-CR-76-2075-11. No. 2 boiler, superheater side furnace, displaced brick at stud wall toward front of boiler.

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AB-CR-76-2076-2. No. 2 boiler, saturated side furnace, front wall.

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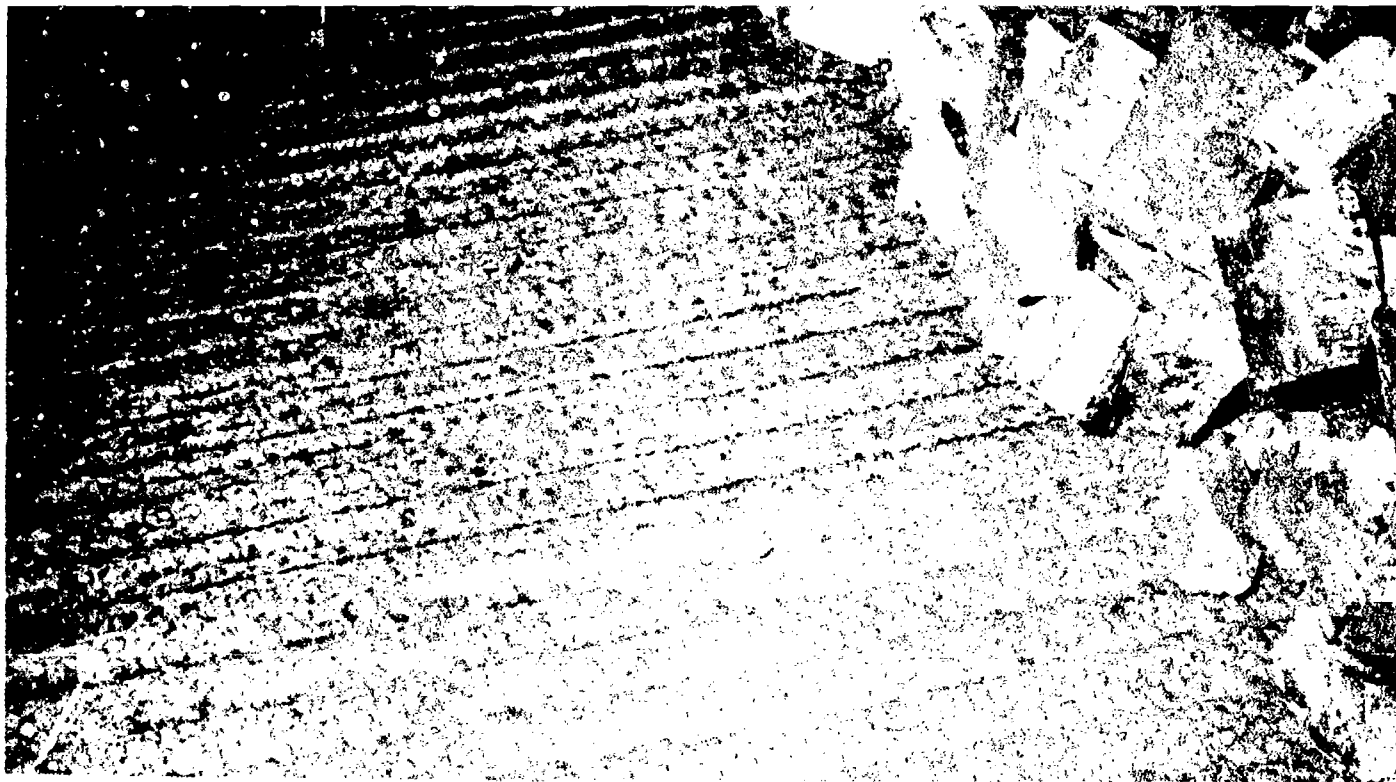
AB-CR-76-2076-5. No. 2 boiler, saturated side furnace, displaced brick piled on outboard side.

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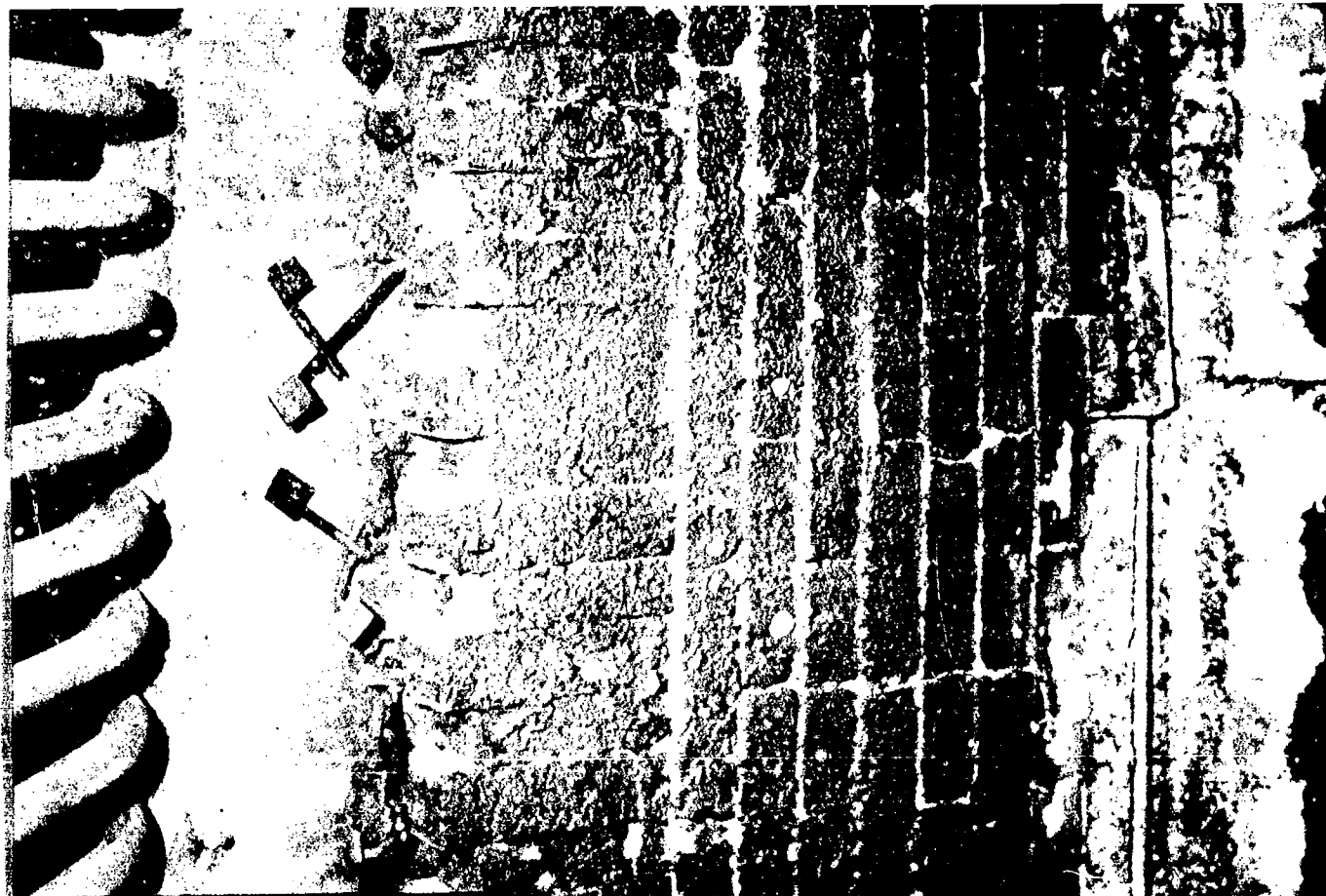
AB-CR-68-2951-12. Interior, saturated side, No. 1 boiler.

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AB-CR-76-2075-9. No. 2 boiler superheater side furnace, side wall.

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AB-CR-76-2075-10. No. 2 boiler superheater side furnace, front wall.

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AB-CR-68-2951-11. Interior, saturated side No. 1 boiler, showing displaced brickwork.

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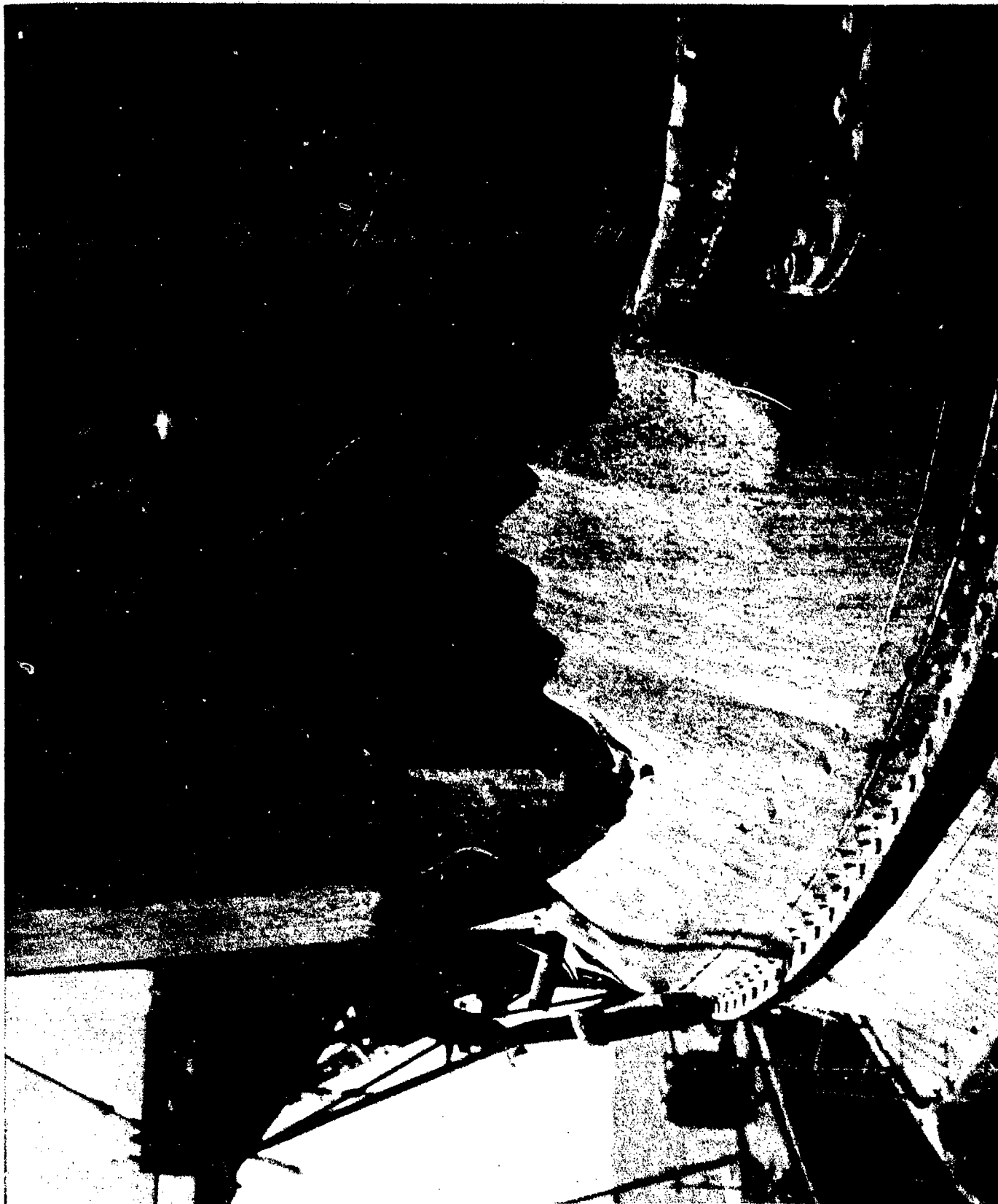
AB-CR-68-2952-2. Interior superheater side No. 1 boiler.

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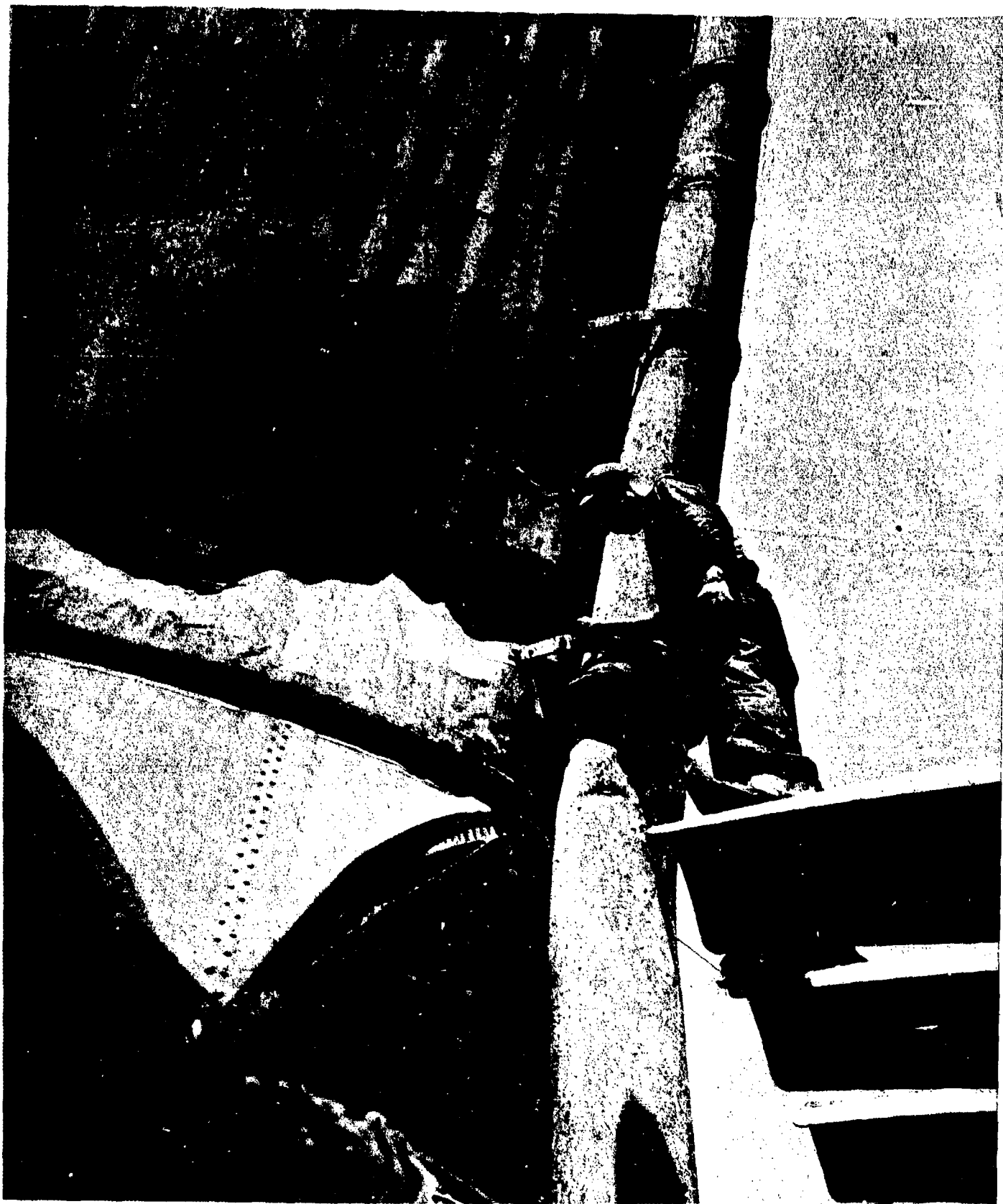
AB-CR-76-2077-11. After port side of stack showing buckle.

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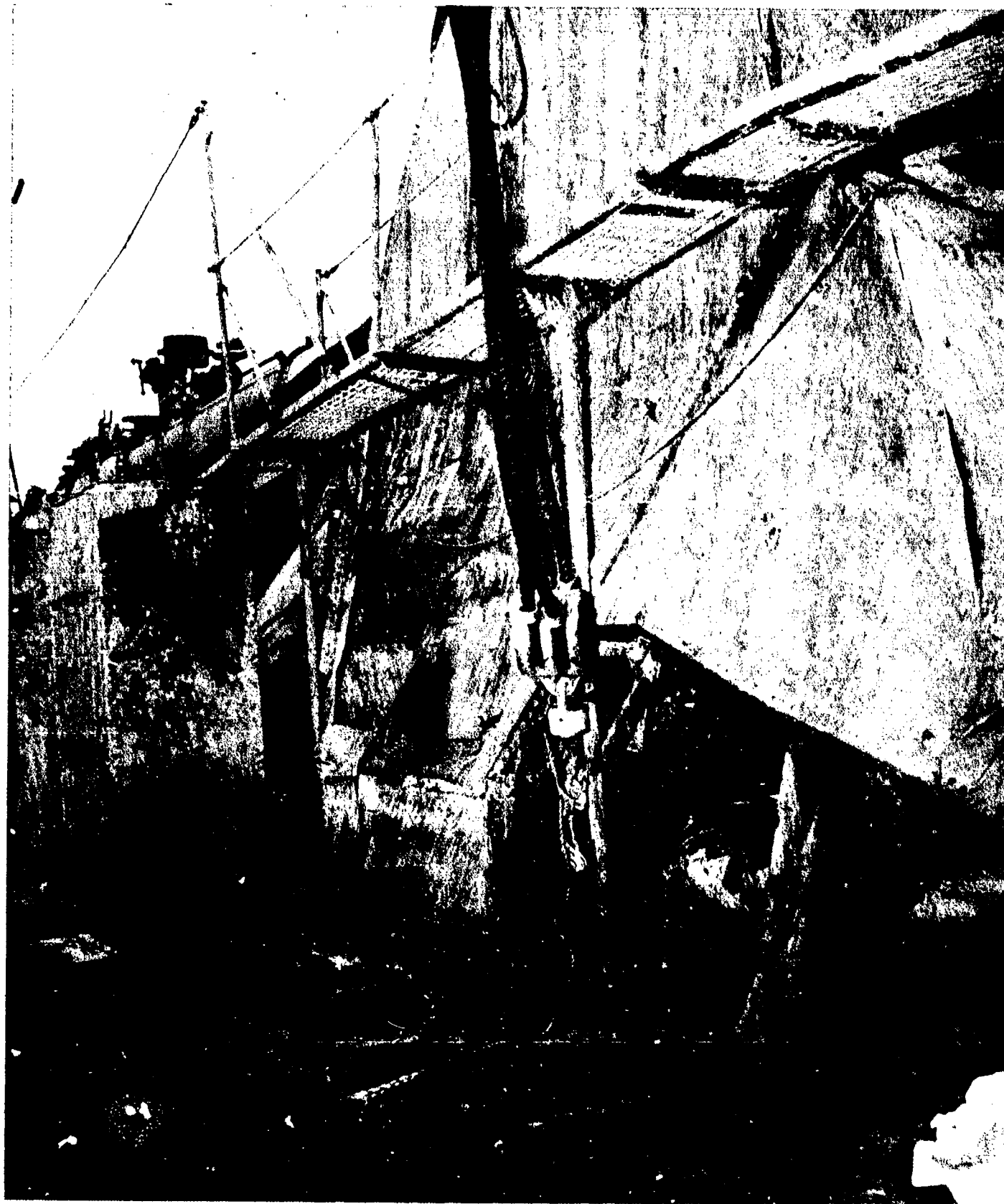
AB-CR-76-2077-12. After port side of stack.

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AB-CR-100-4204-6. Starboard side of uptakes, looking aft on main deck.

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AB-CR-76-2078-1. No. 2 boiler uptake, port side.

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AB-CR-76-2078-2. No. 2 and 3 boiler uptake.

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AB-CR-76-2077-7. No. 3 uptake, rupture of sheet and main frame.

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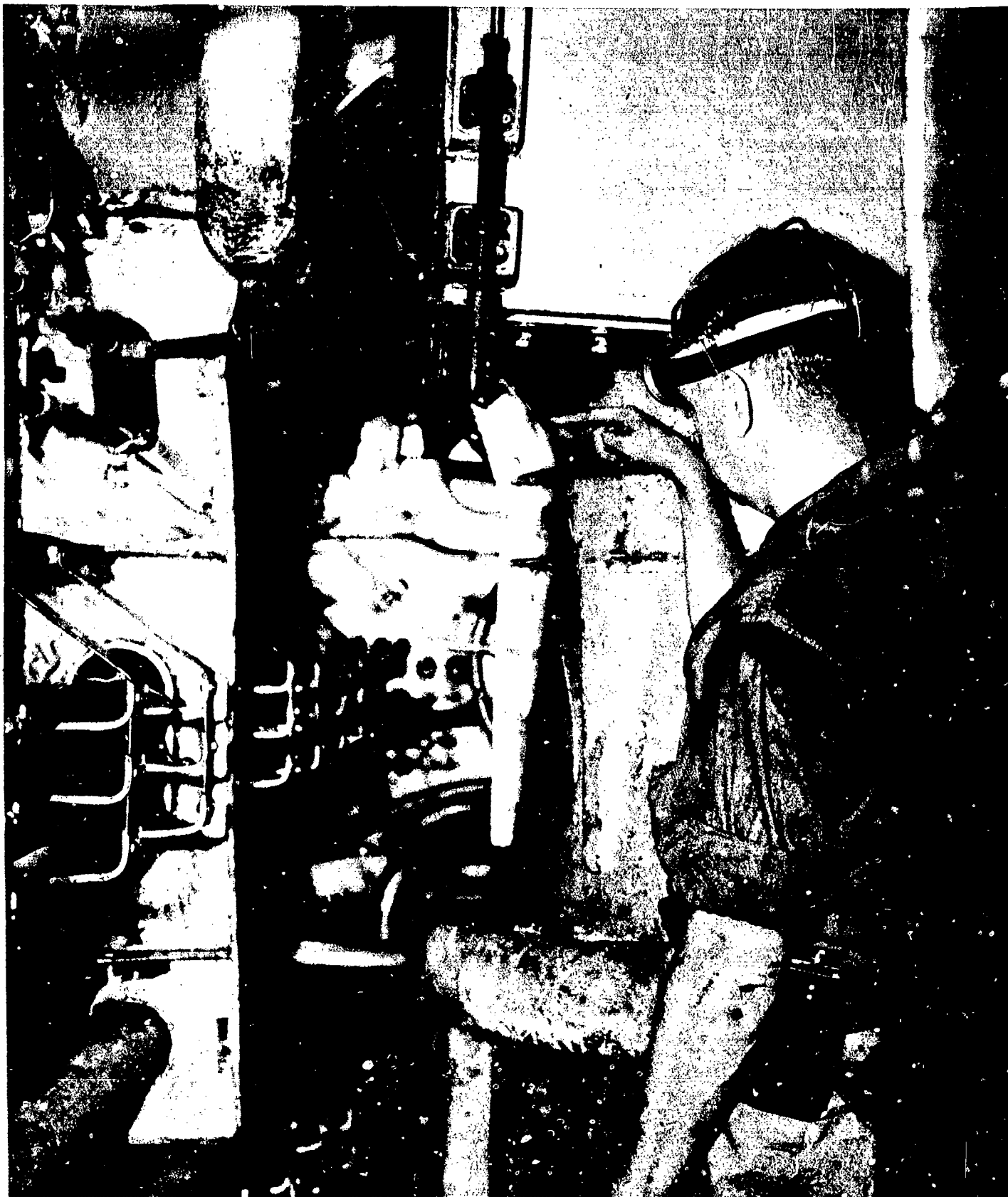
AB-CR-76-2077-8. No. 3 uptake, top of port leg.

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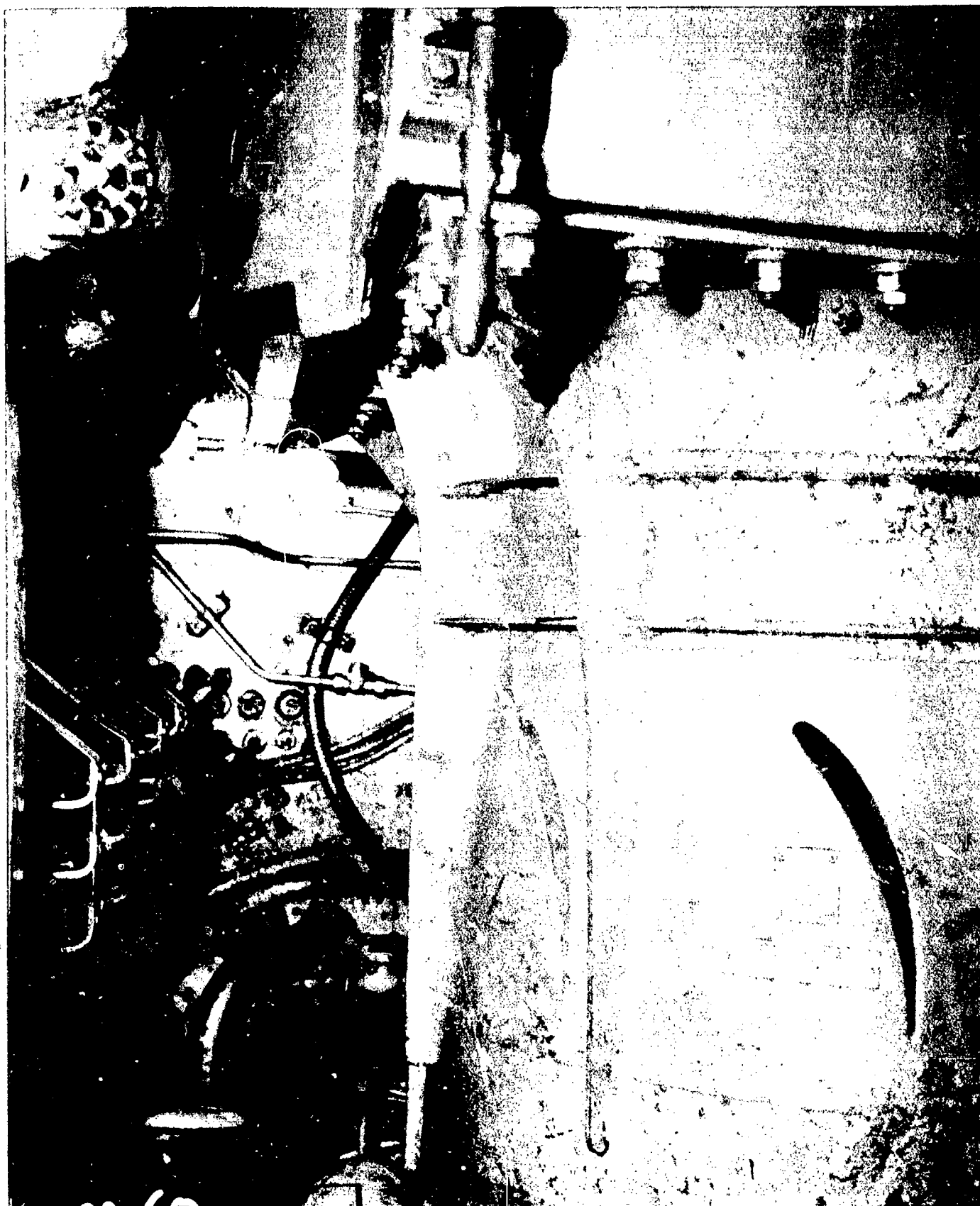
AB-CR-76-2075-6. No. 2 forced draft blower, showing buckled casing support ribs.

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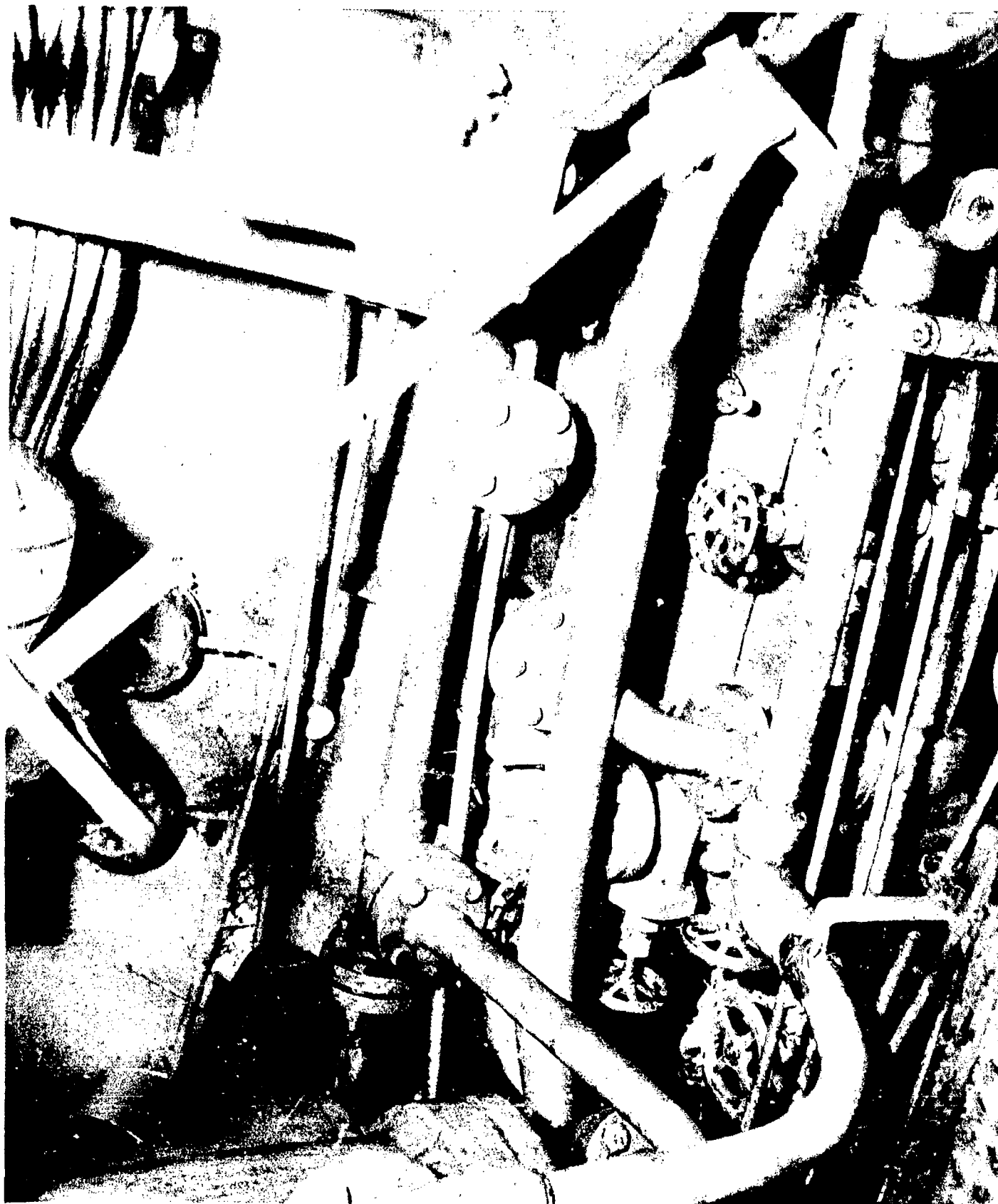
AB-CR-68-2952-4. No. 2 forced draft blower, port side. No. 1 fire-room, showing bent gusset plate.

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AB-CR-68-2950-9. Showing fouled governor control piping in way of auxiliary air ejector due to throttle manifold dropping No. 1 engine room.

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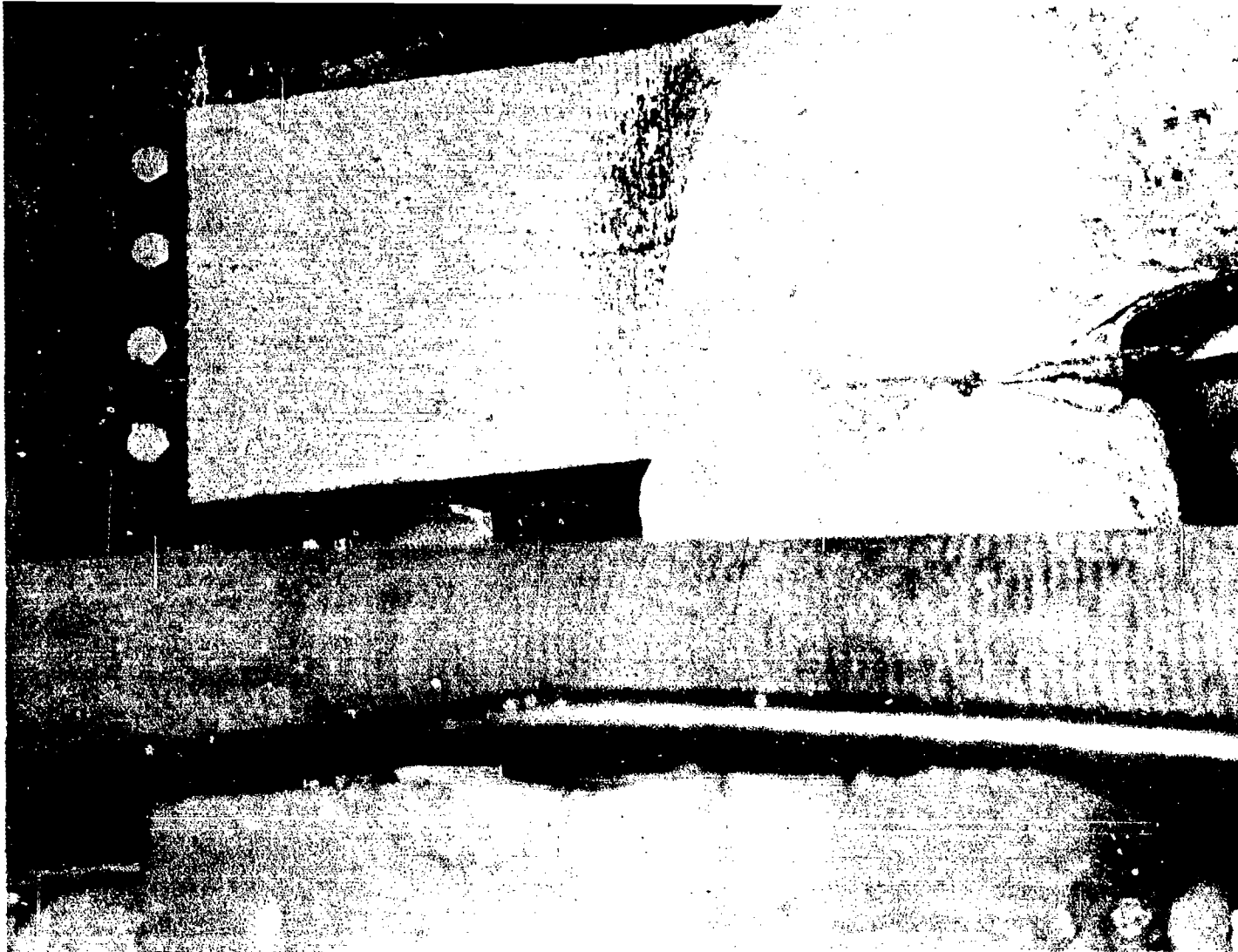
AB-CR-68-2950-11. Showing sagged main steam piping over No. 2 turbo generator No. 1 engine room.

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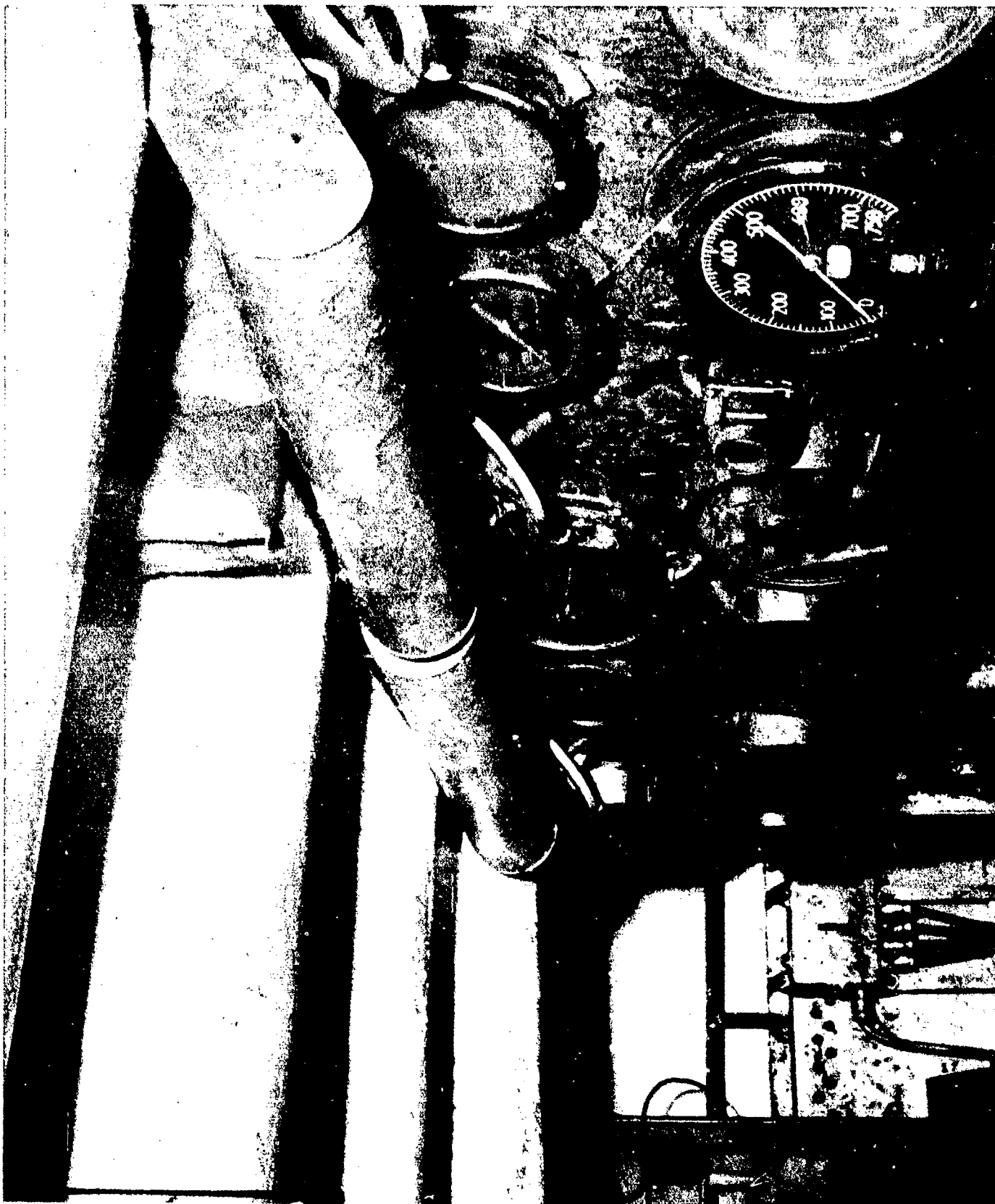
AB-CR-97-4059-6. Main steam manifold support forward engine room showing sheared forward bolt holes No. 1 engine room.

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AB-CR-97-4059-7. No. 1 engine room, showing sagged main steam lines and gage board.

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AB-CR-66-151-12. L.P. turbine, flexing plate No. 2 engine room.

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AB-CR-66-153-1. L.P. turbine flexing plate No. 2 engine room.

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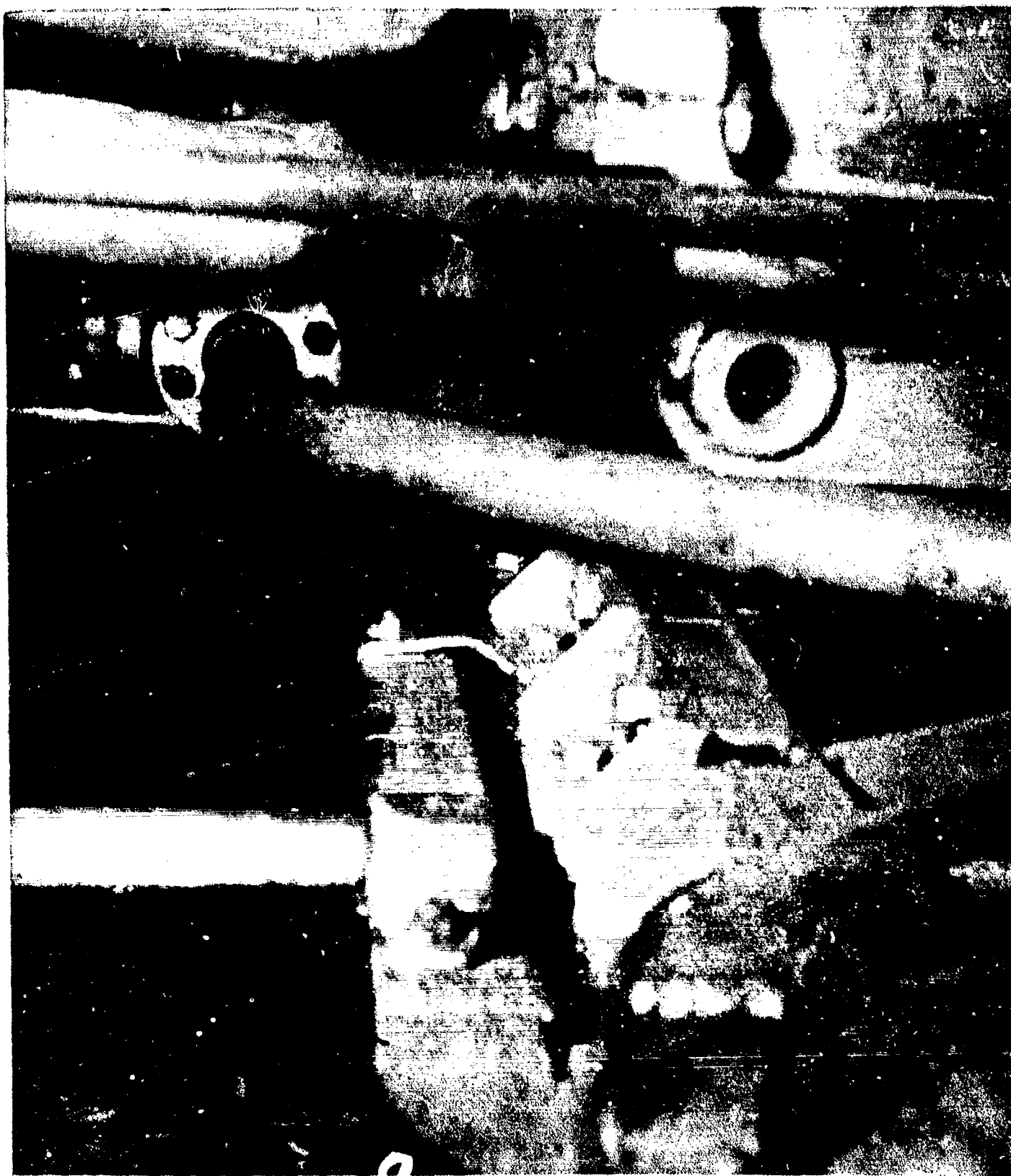
AB-CR-66-153-5. Showing broken engine girder tie clip. No. 1 engine room.

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AB-CR-66-153-9. No. 2 engine room, bent structural engine girder looking from port inboard.

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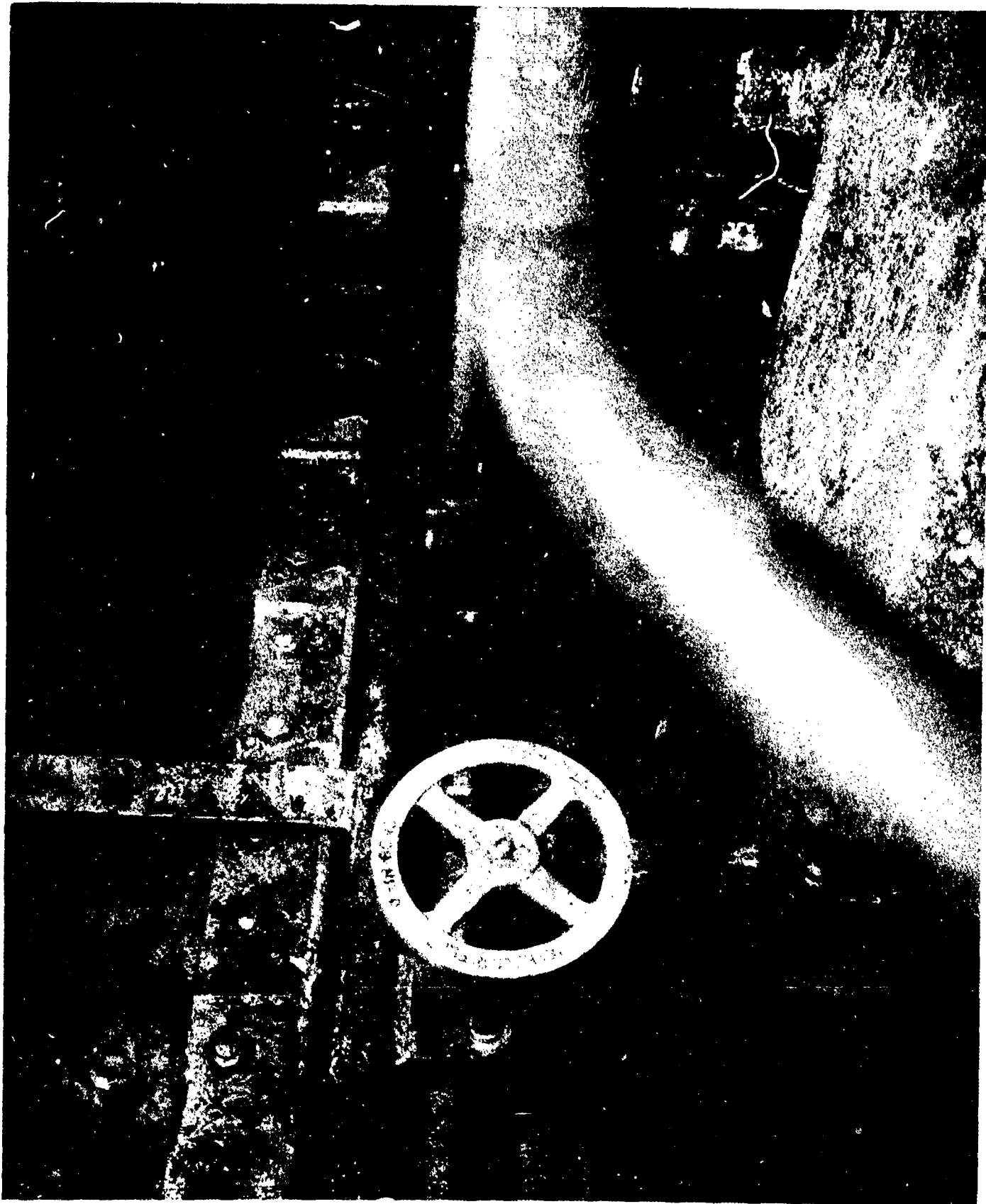
AB-CR-66-153-10. No. 2 engine room, showing space between L.P. turbine flexing plate and I.P. girder flexing plate.

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AB-CR-68-2951-2. Showing main engine support girder with flexing plate sheared off No. 1 engine room.

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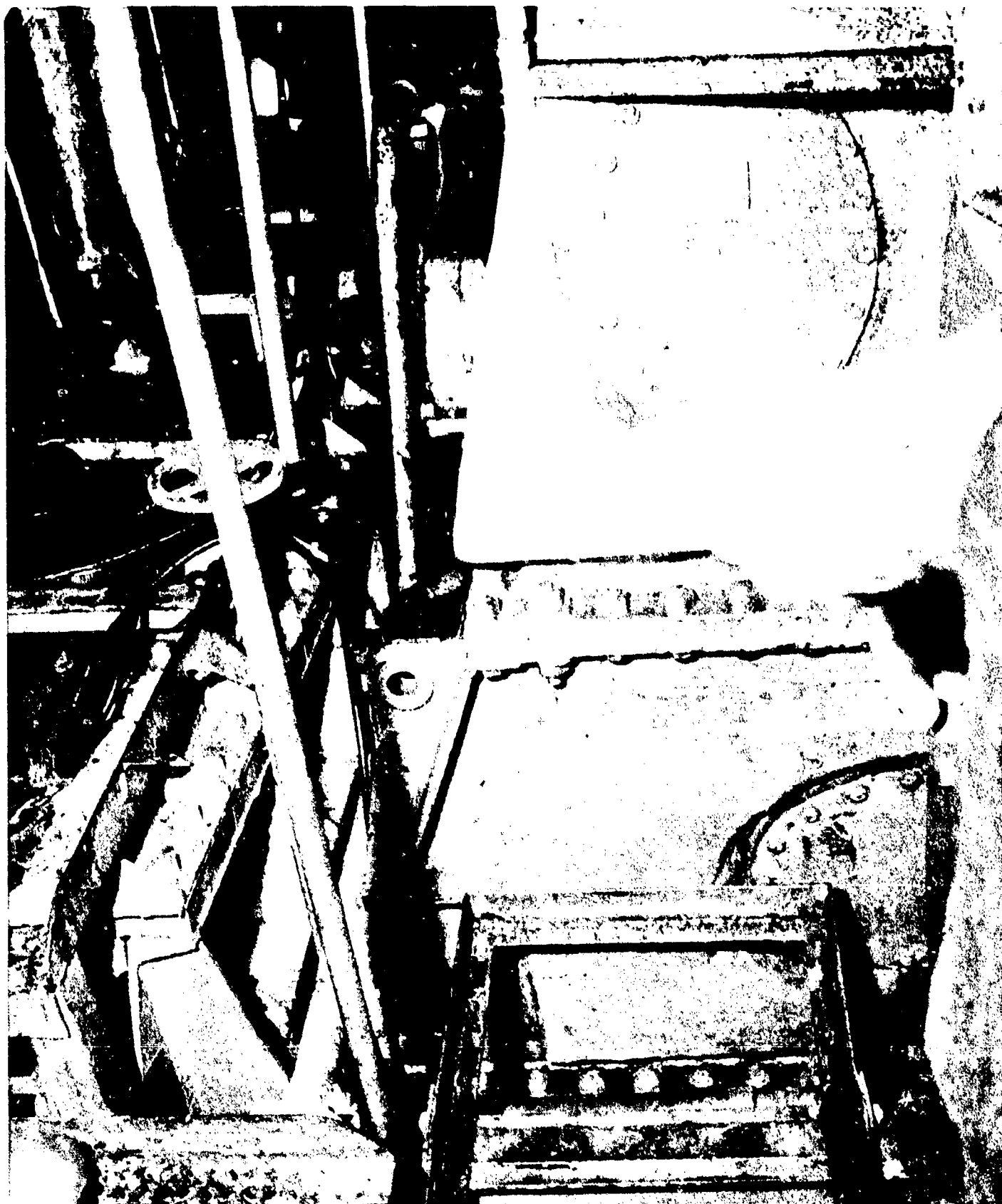
AB-CR-68-2951-4. View from lower level No. 1 engine room, forward condenser showing flexing plate and bottom of girder. Note broken girder tie straps.

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AB-CR-68-2951-9. View from amidship to starboard showing turbine girder bent aft. No. 1 engine room.

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AB-CR-97-4059-1. No. 1 L.P. turbine flexing plate looking to starboard and down.

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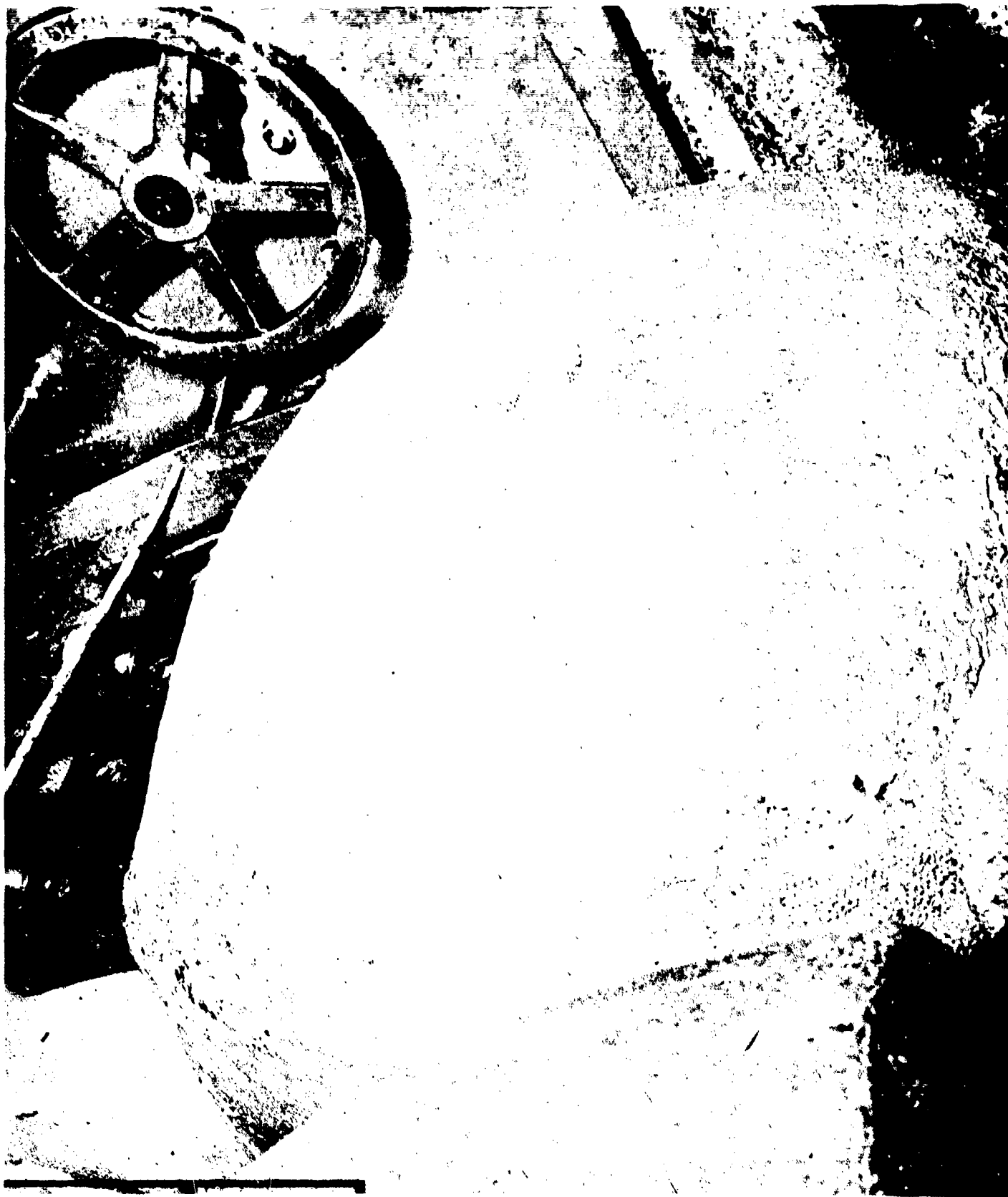
AB-CR-66-153-2. Showing throttle valve inboard hanger failure.

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AB-CR-97-4059-9. No. 2 engine room, main steam manifold support bracket failure.

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AB-CR-66-153-3. Showing No. 2 throttle valve outboard hanger failure.

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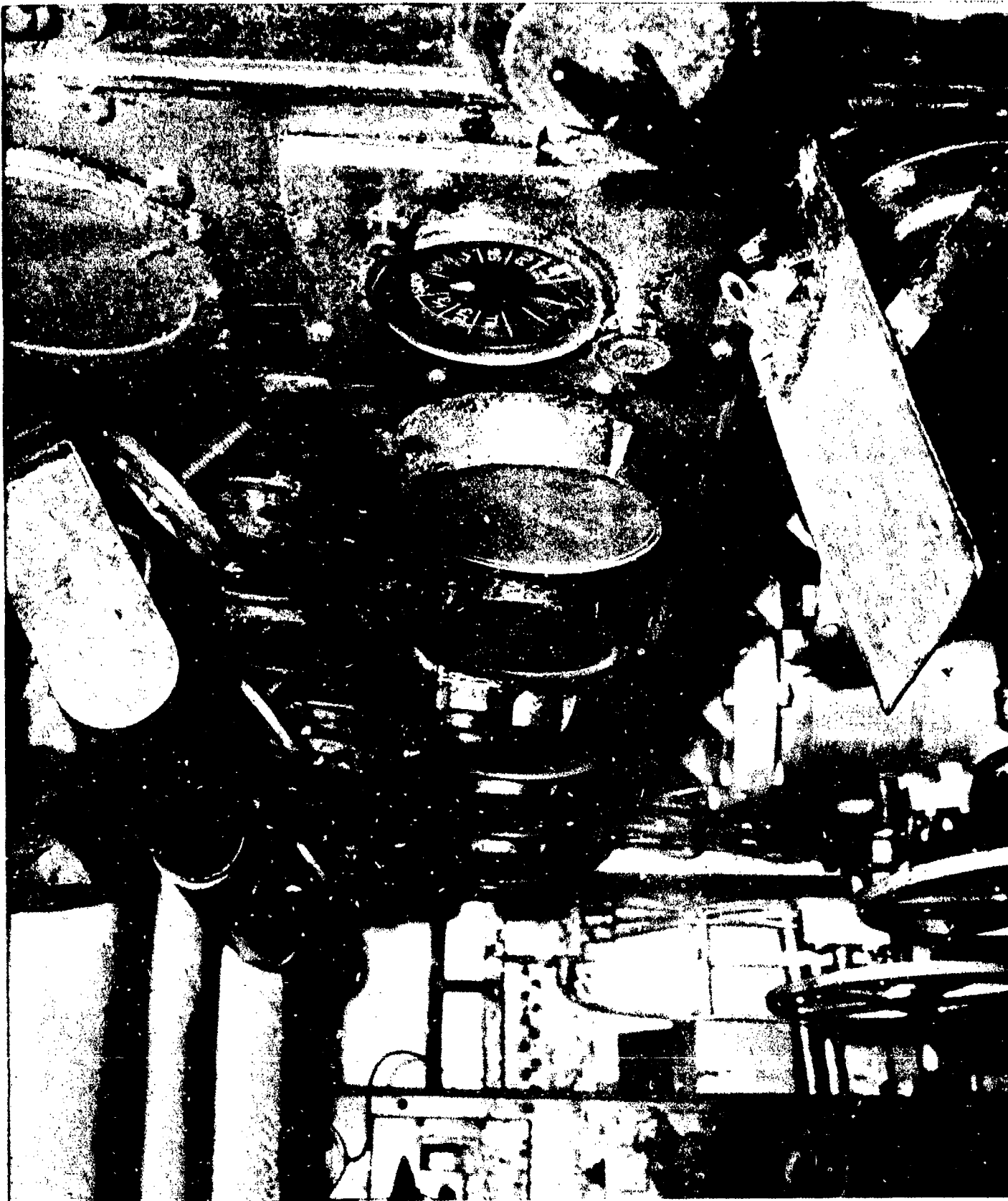
AB-CR-68-2950-6. No. 1 engine room, throttle hanger plate showing sheared deck stringer.

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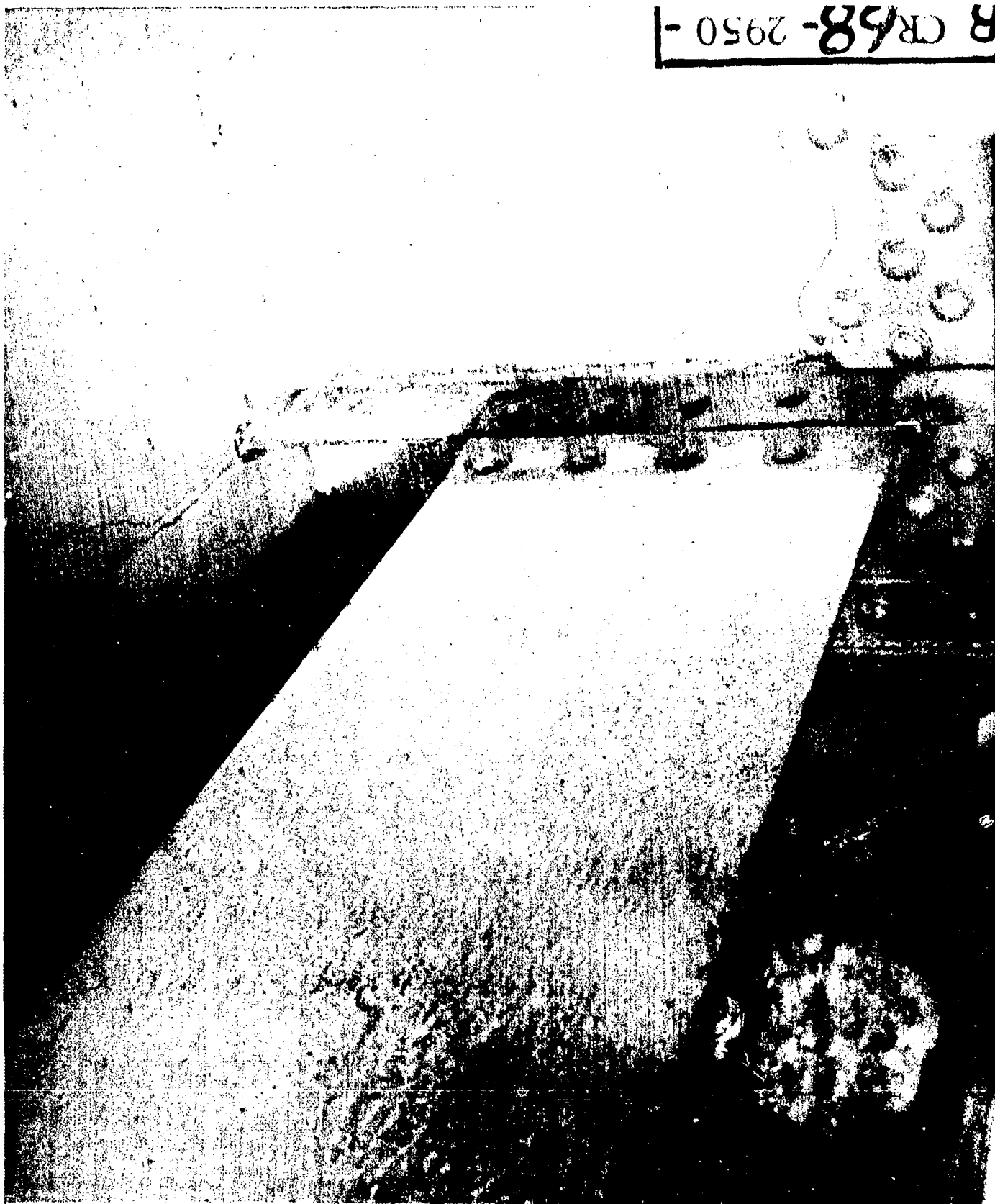
AB-CR-68-2950-7. Front of main gage board. No. 1 engine room, showing bent throttle by-pass valve stems.

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AB-CR-68-2950-8. No. 1 engine room outboard, throttle support showing break at main deck.

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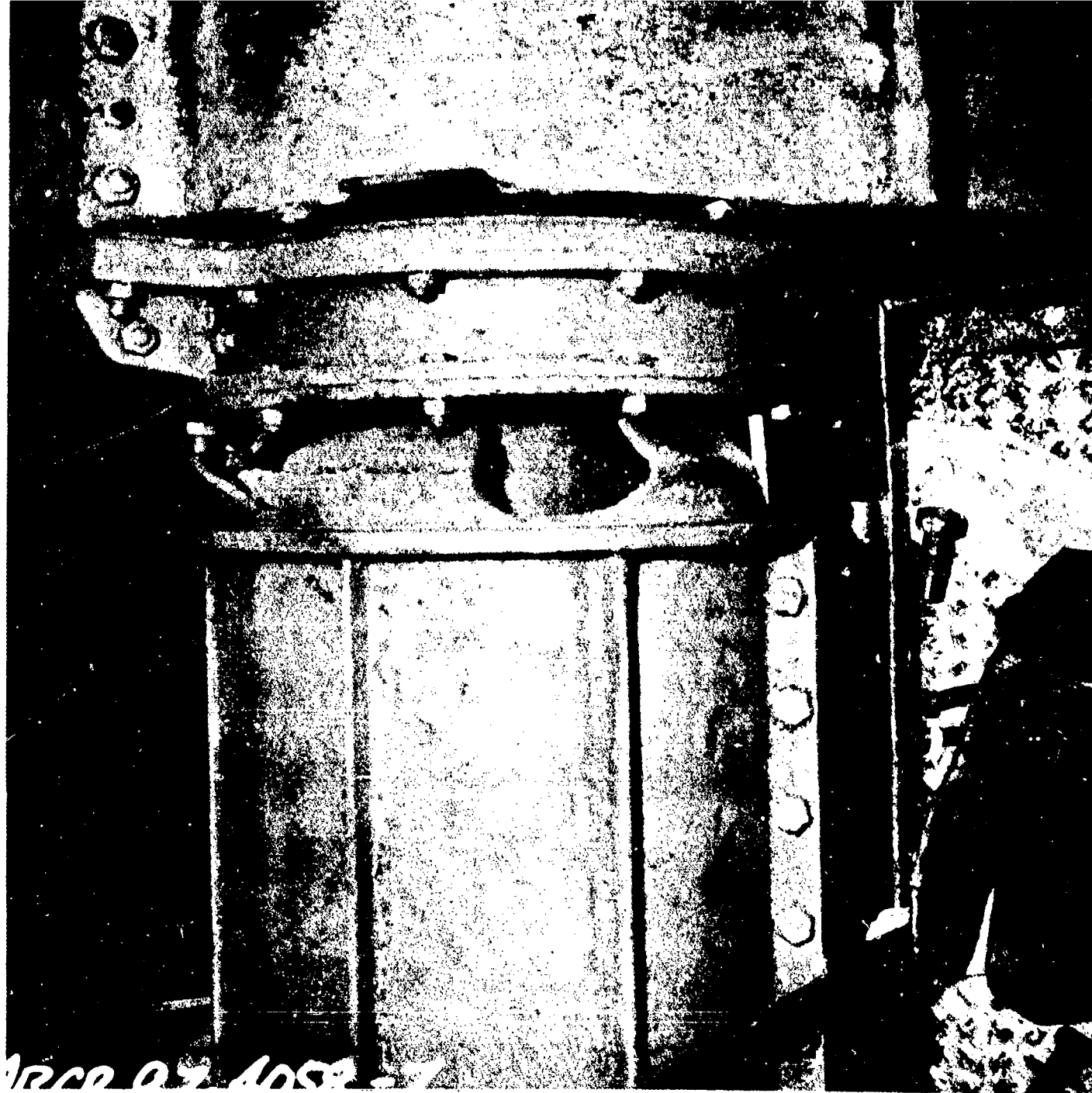
AB-CR-66-153-6. Showing No. 2 main condenser resting on hull frames.

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AB-CR-97-4058-7. No. 1 L.P. turbine coupling connector cover,
forward engine room.

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AB-CR-66-153-8. No. 2 L.P. turbine coupling cover pulled out at stuffing box.

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AB-CR-68-2950-10. Showing broken low pressure coupling cover at reduction gear end No. 1 engine room.

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AB-CR-66-157-2. No. 1 spring bearing, starboard shaft.

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AB-CR-234-4060-5. Starboard intermediate structural fairwater
aft end.

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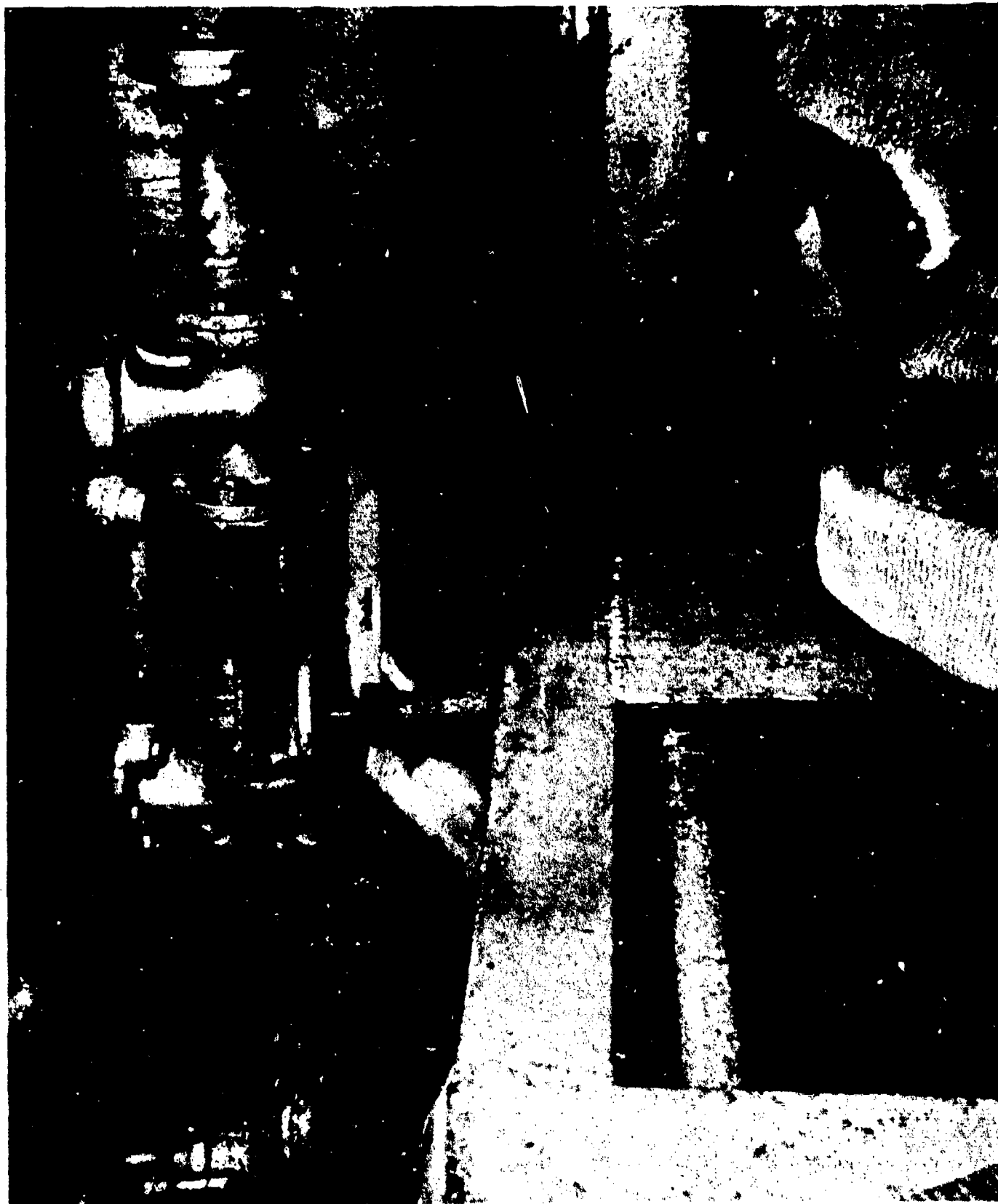
AB-CR-234-4060-6. Starboard rope guard.

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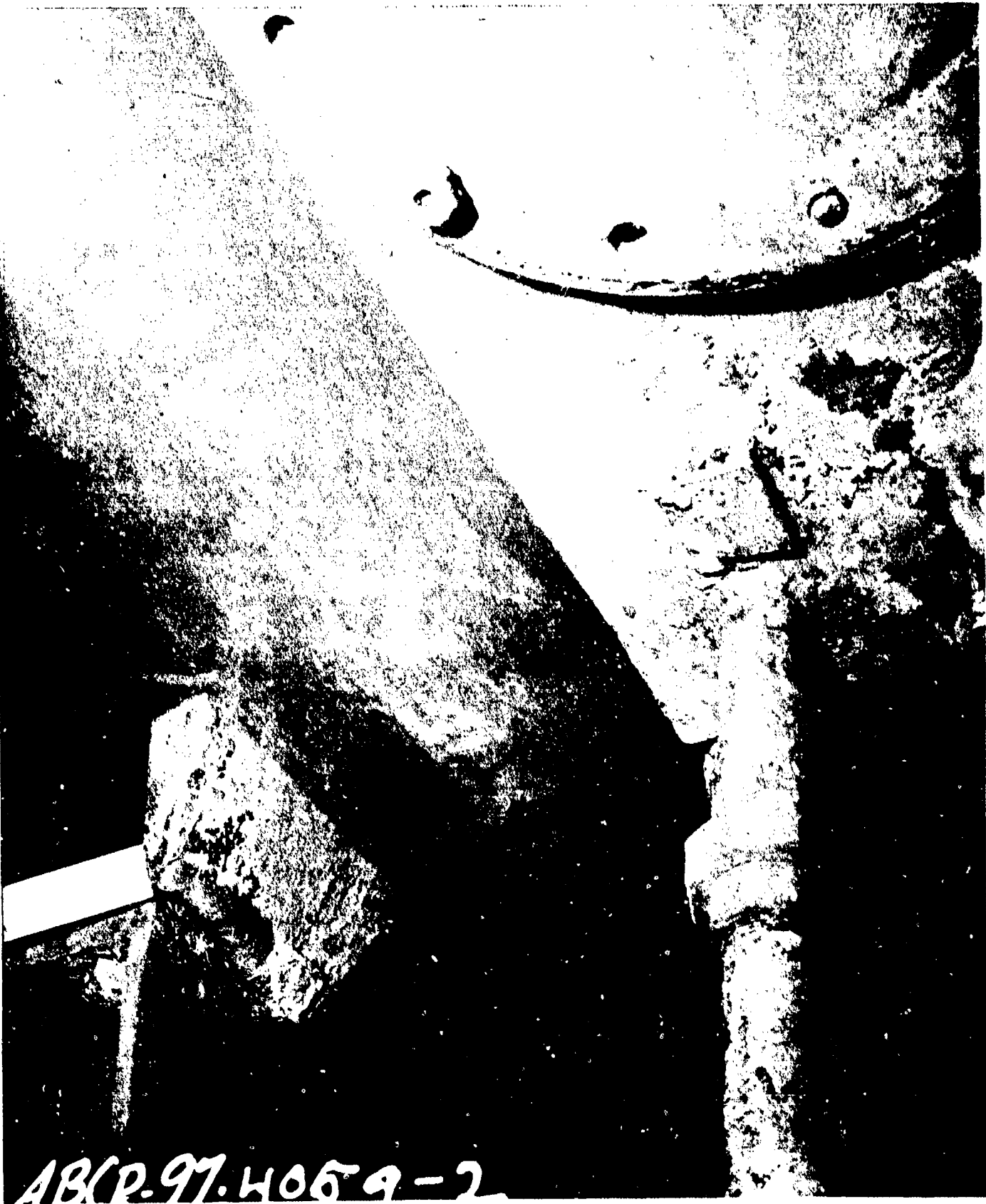
AB-CR-97-4059-3. Dynamo air ejector sagged nozzles and pipe looking forward.

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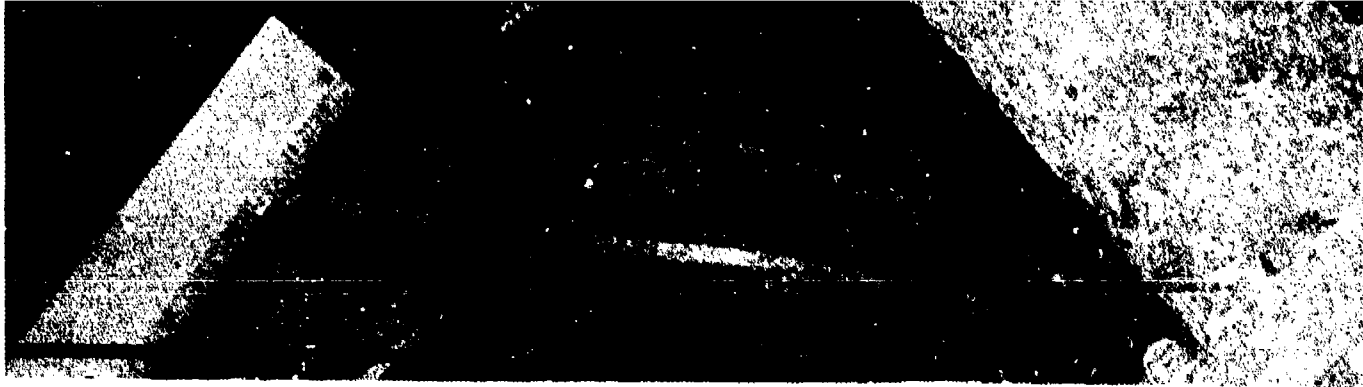
AB-CR-97-4059-2. No. 1 main circulating pump foundation looking
aft at amidship.

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AB-CR-66-153-11. No. 2 main circulating pump foundation.

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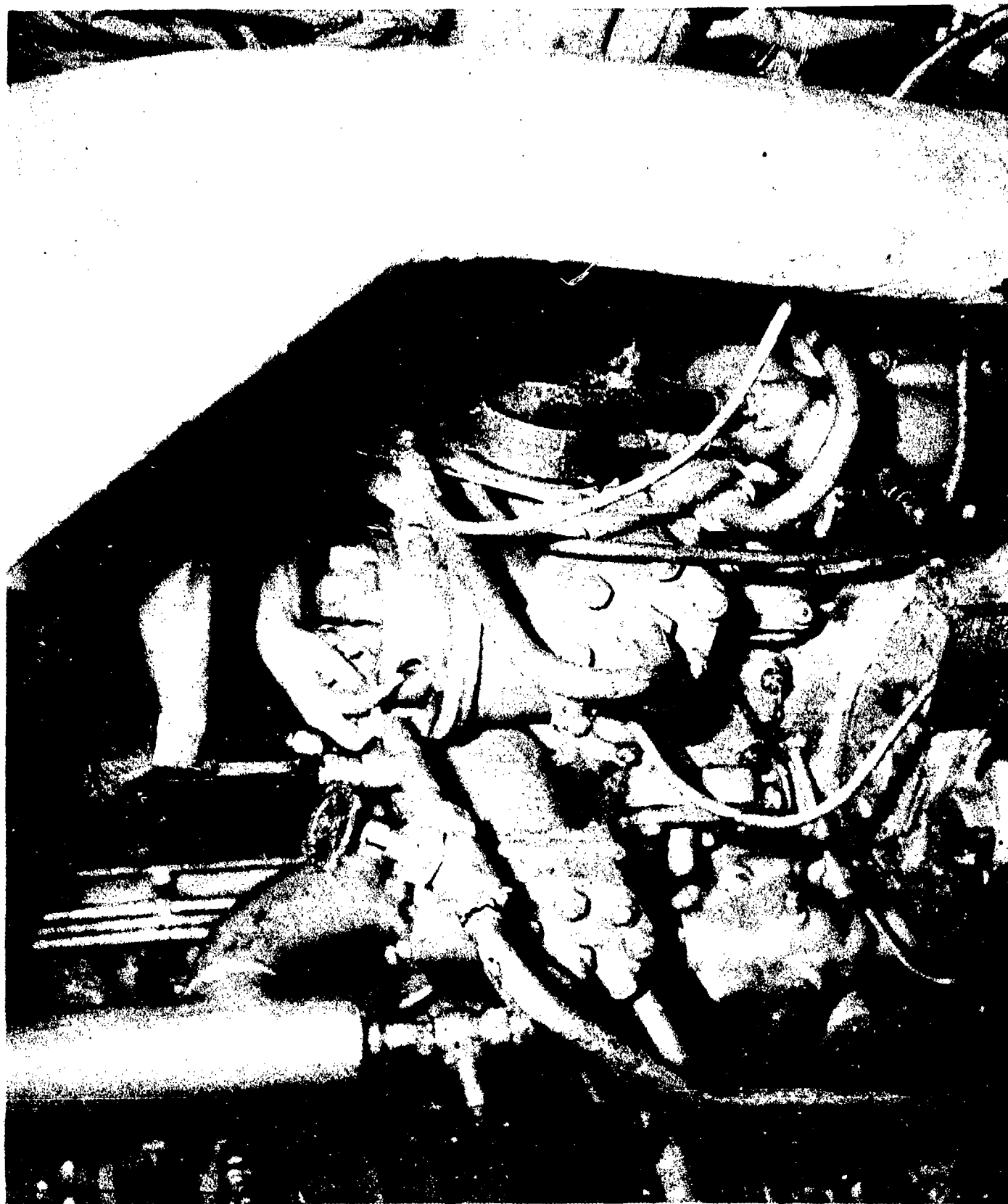
AB-CR-66-153-12. Showing support of overhead of No. 2 main circulating pump.

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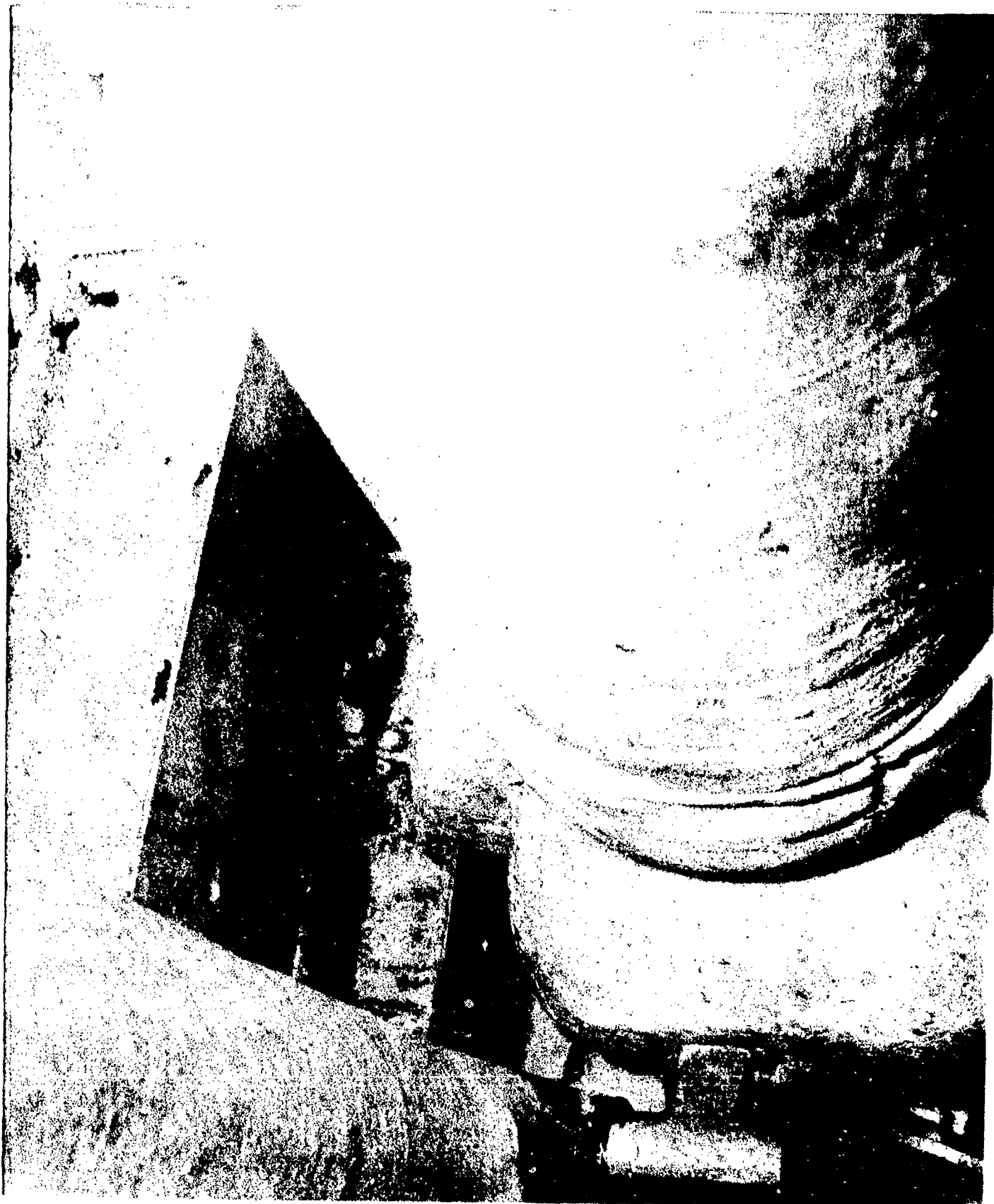
AB-CR-80-1681-6. High pressure air compressor broken cooling water inlet line.

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AB-CR-68-2951-6. Showing broken hanger on main steam cross connection valve. After bulkhead No. 1 engine room.

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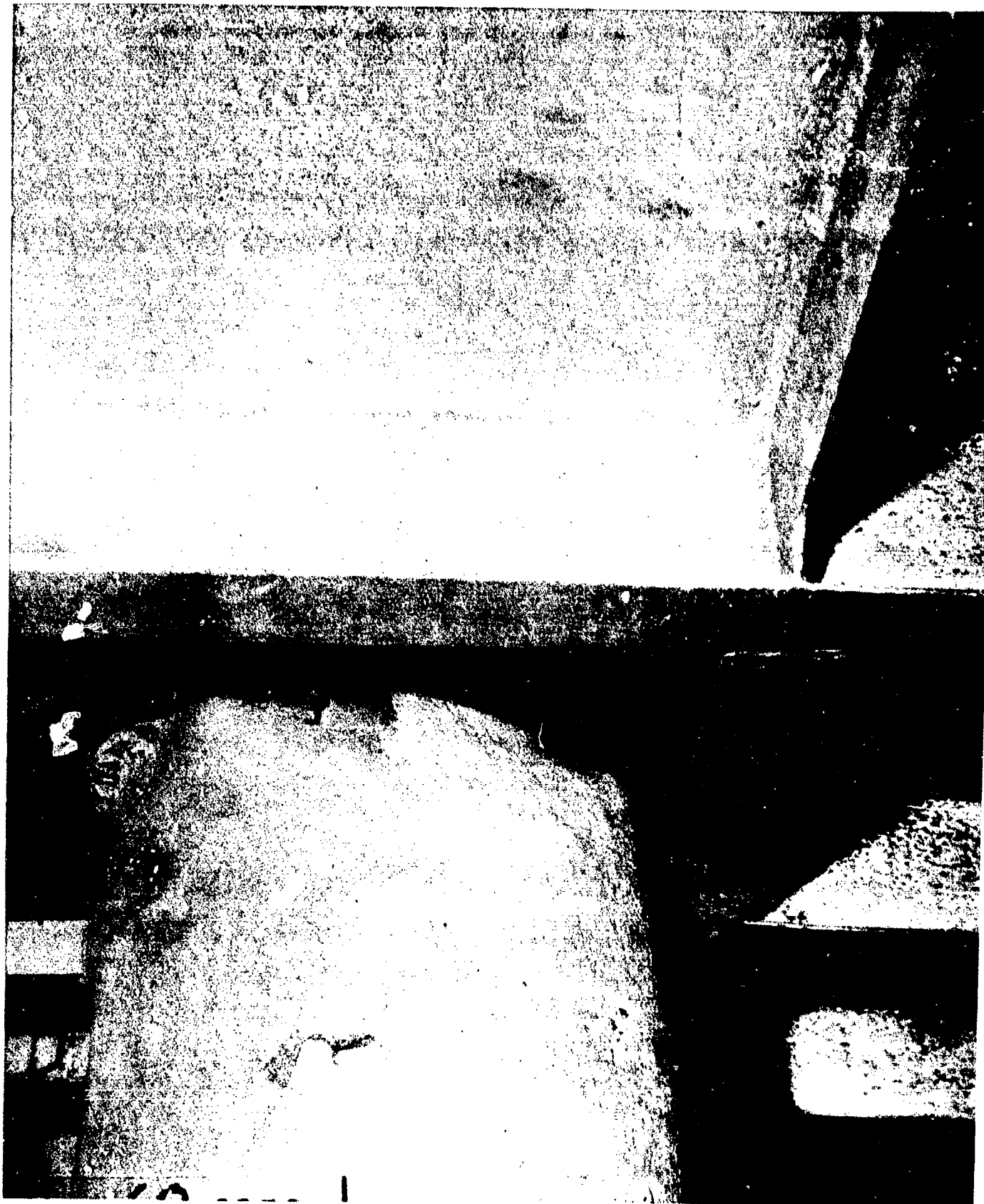
AB-CR-68-2951-10 Broken pipe hanger on main steam line, upper level, starboard side, No. 1 fireroom.

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AB-CR-68-2952-3. Auxiliary steam line showing drop at bulkhead 89, port side No. 1 fireroom.

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AB-CR-97-4059-8. No. 1 engine room, main steam line spring hanger strap failure, through bolt hole.

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AB-CR-97-4059-10. No. 2 fire room, port side, main steam line, showing drop on line and expansion piece at bulkhead 105. Damage due to hanger failure.

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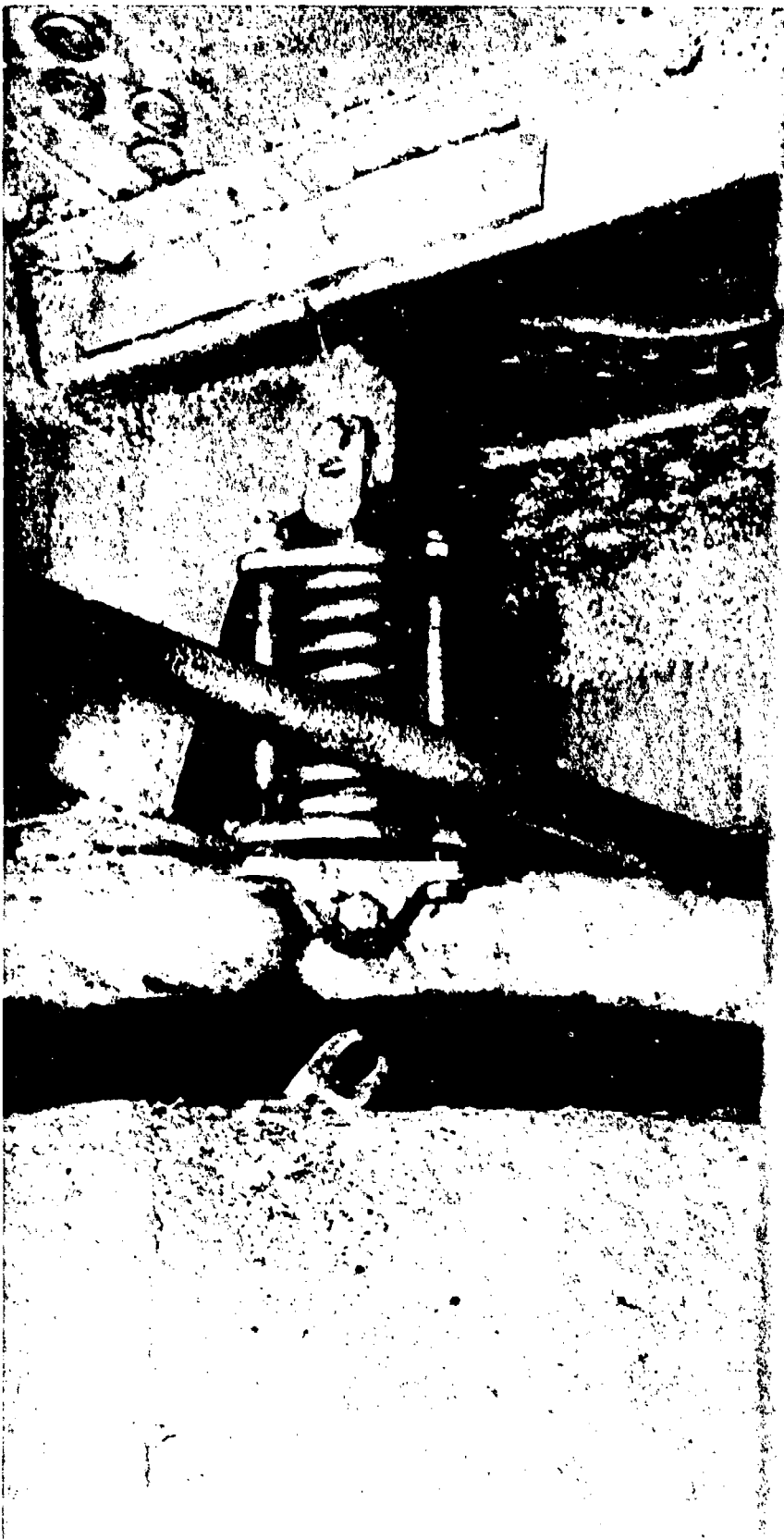
AB-CR-76-2076-6. Spring hanger failure, No. 2 boiler superheater line.

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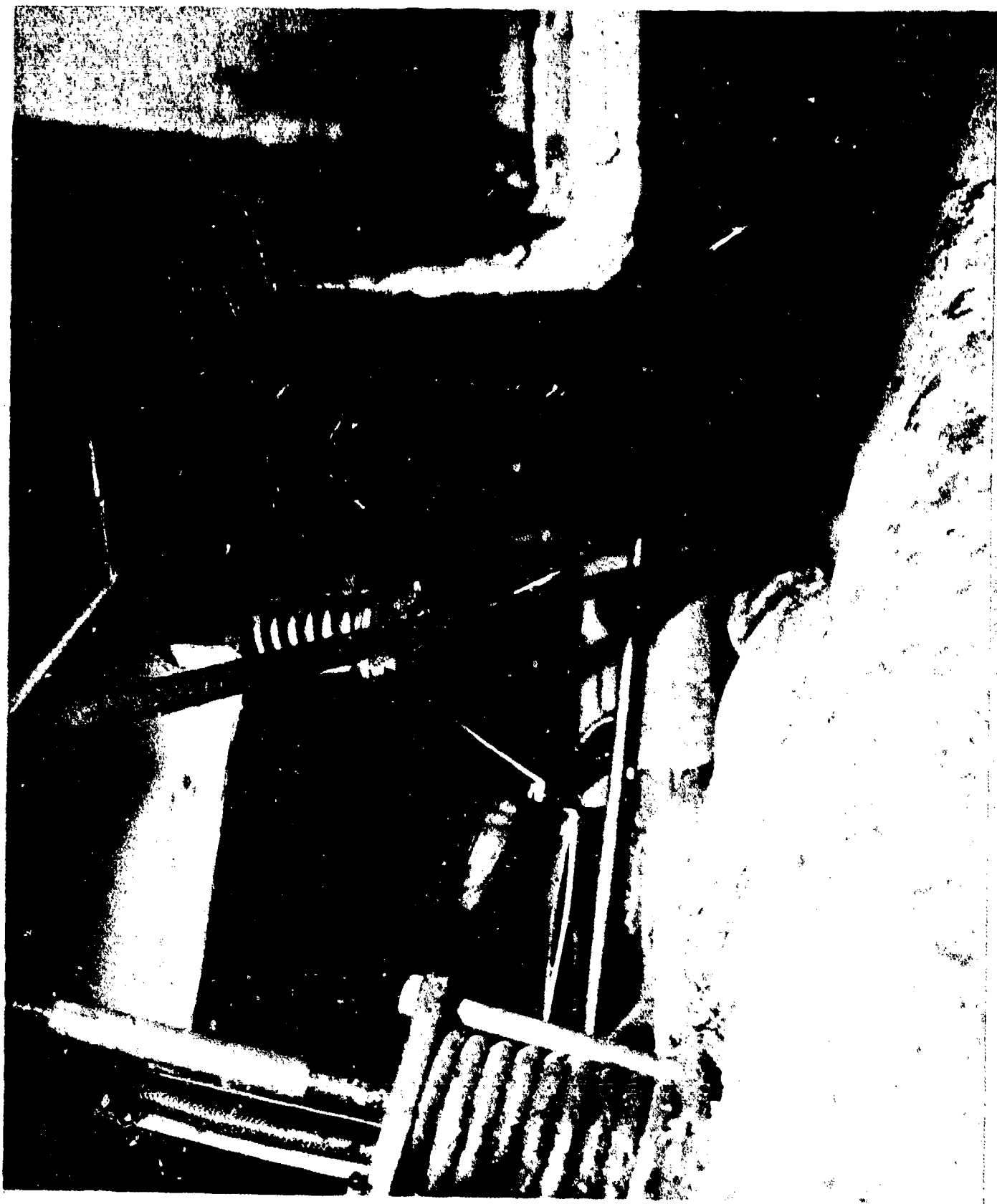
AB-CR-68-2951-7. Showing broken hanger on 7" main steam line to L.P. turbine, No. 1 engine room.

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AB-CR-68-2950-12. Showing bent main steam spring hangers.

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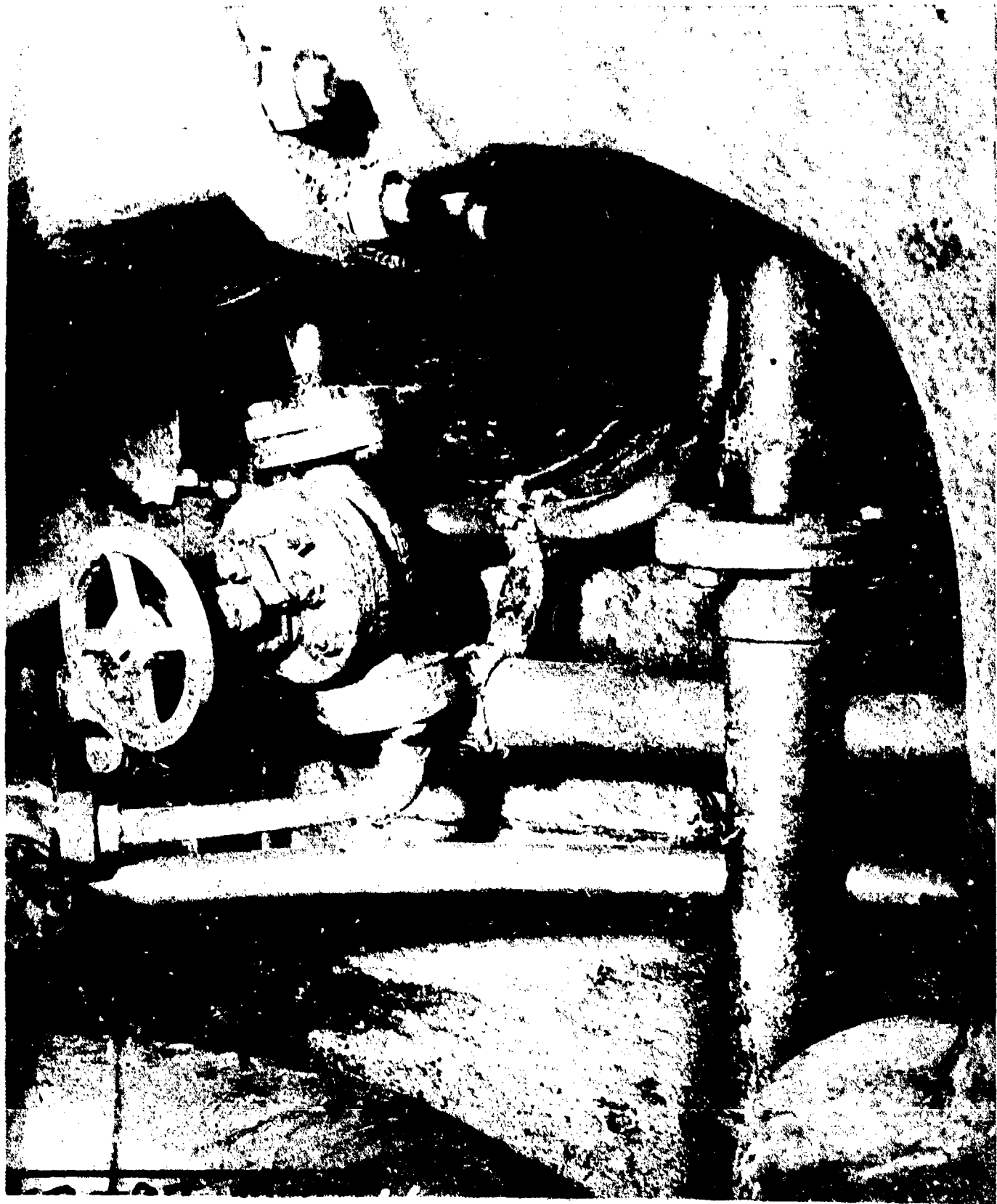
AB-CR-76-2076-7. Port side main feed line hanger failure in No. 1 fire room.

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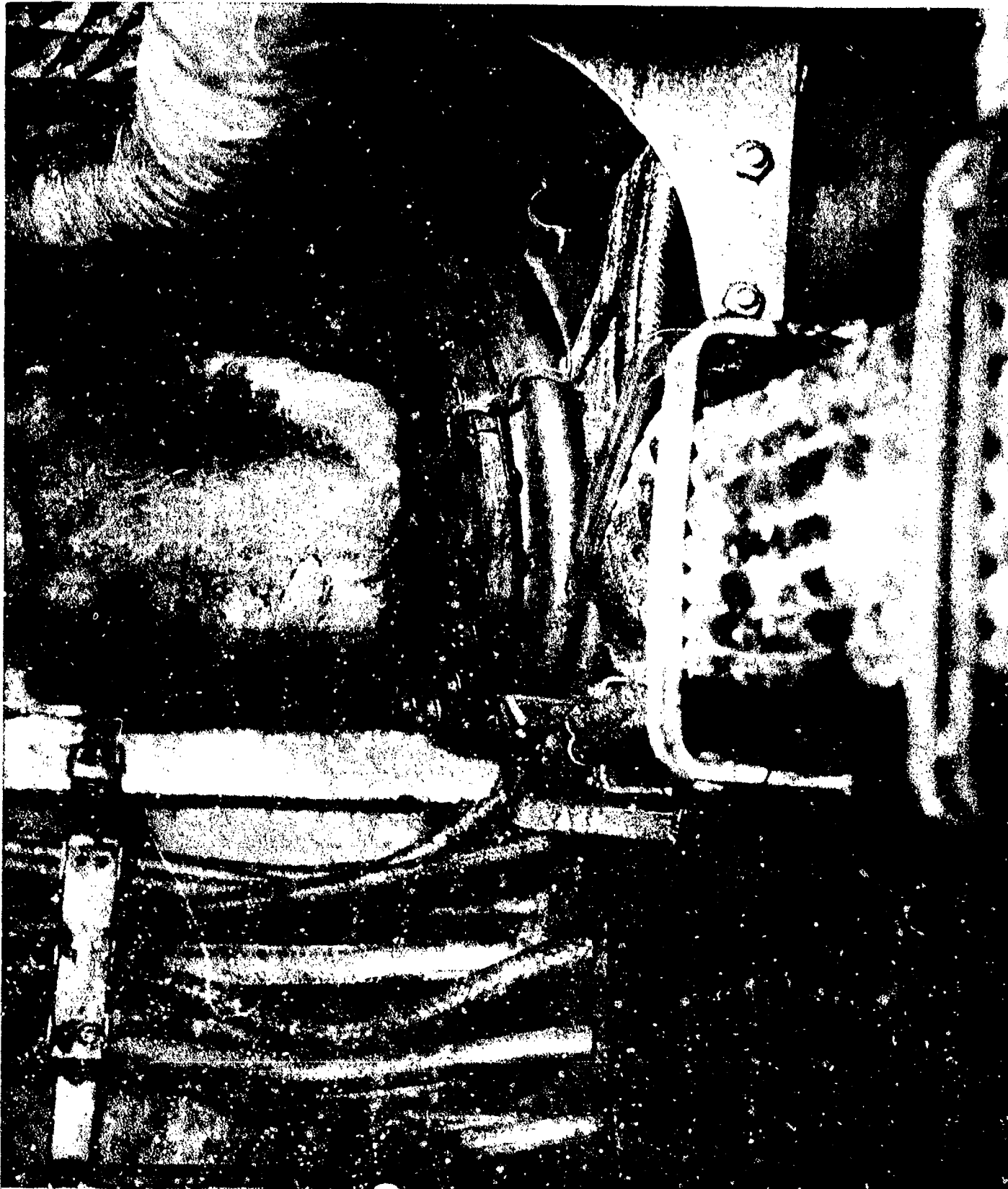
AB-CR-97-4059-4. Steaming out connection for auxiliary condenser sea suction. Looking outboard No. 1 engine room.

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AB-CR-76-2076-8. Starboard side main feed bulkhead expansion joint failure in No. 2 fire room.

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AB-CR-68-2951-5. View showing broken in L.O. cooler overboard discharge fitting on main condenser. Overboard discharge sea stool.

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AB-CR-80-1681-2. Motor for low pressure air compressor in after fire room. Shows crack in bed plate at bolt slot. Picture taken looking to port.

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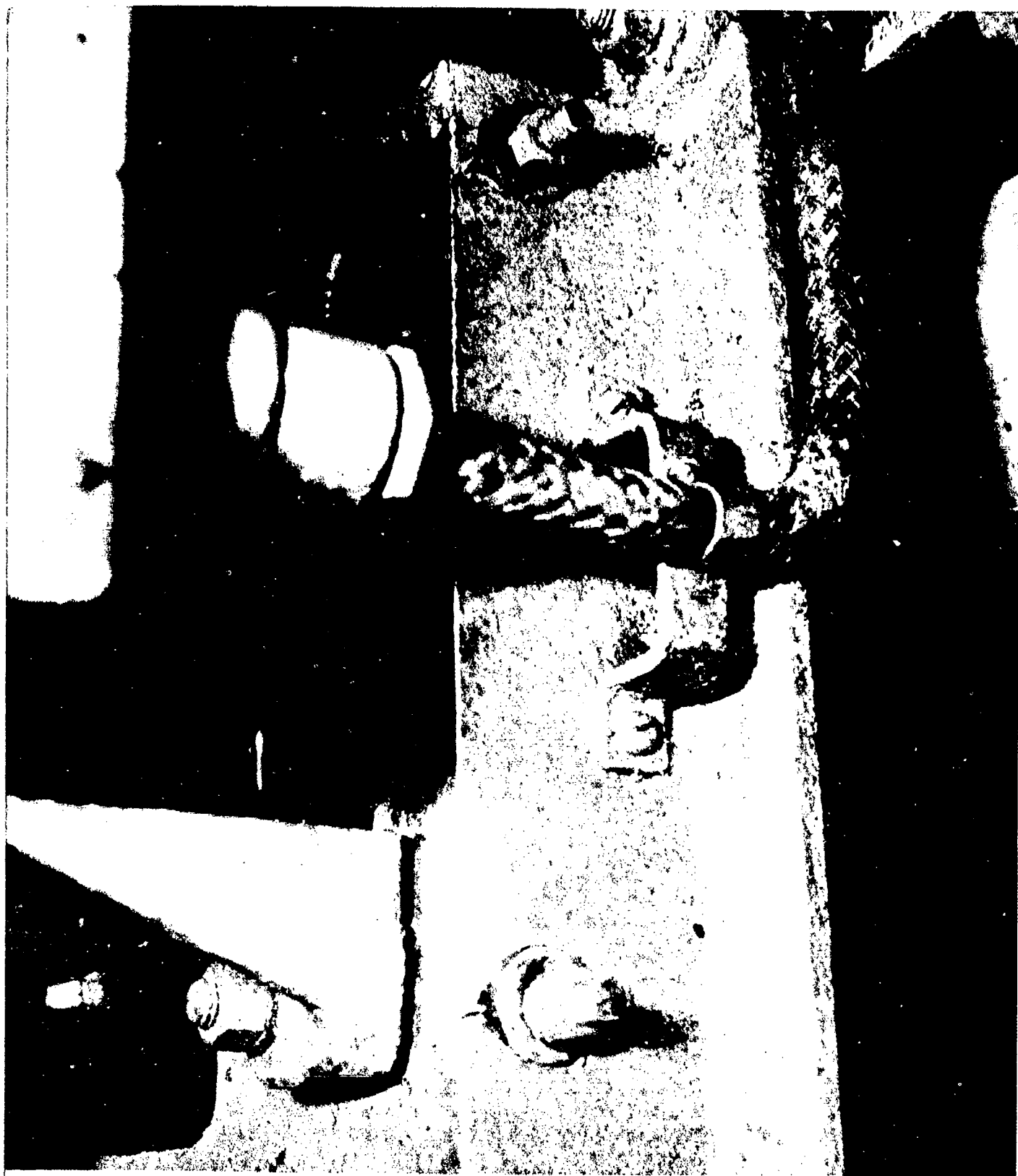
AB-CR-80-1681-3. Low pressure air compressor frame. Shows crack in bolted flange of the frame. Picture taken looking down at the unit.

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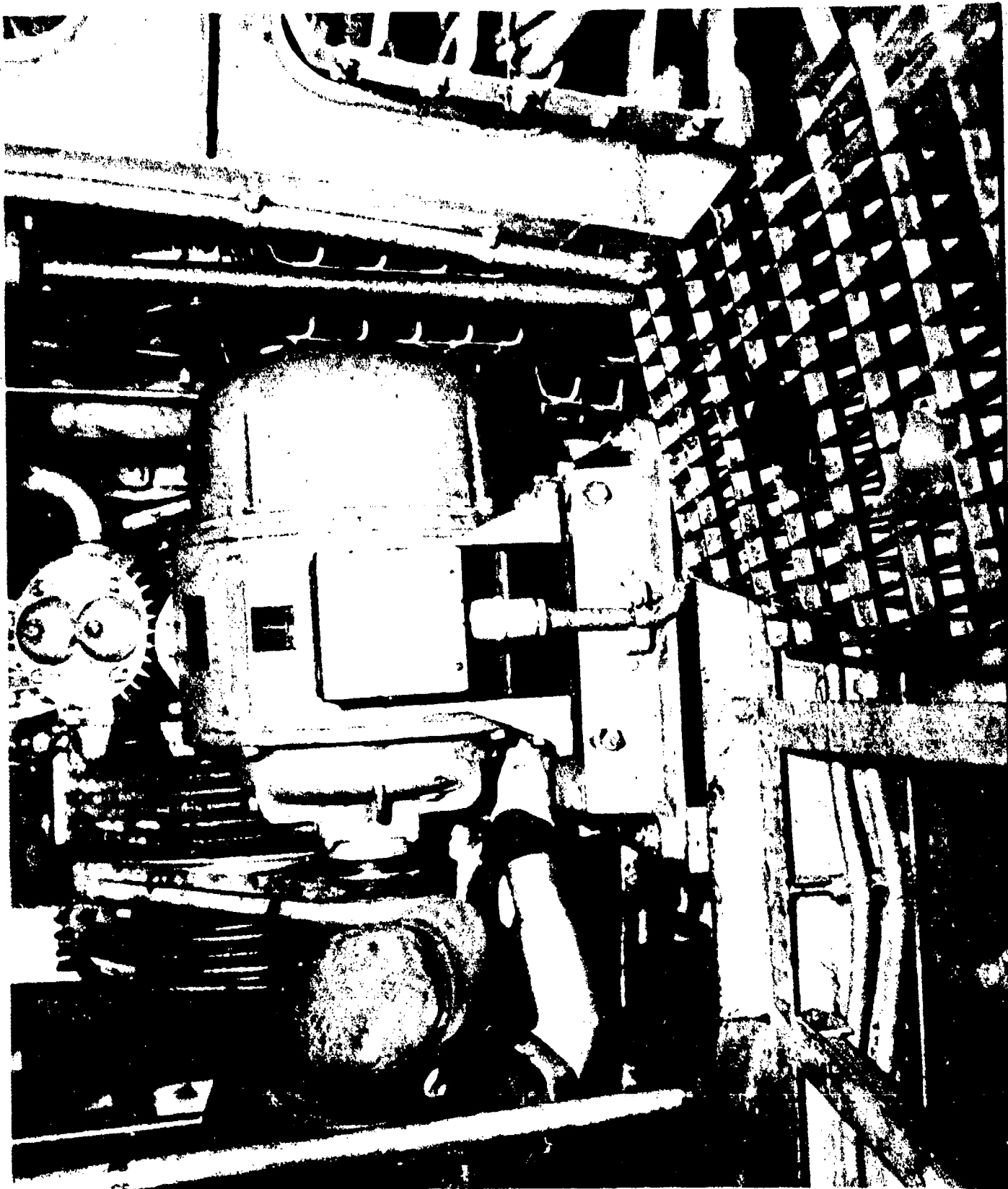
AB-CR-80-1681-4. Motor for low pressure air compressor in after fire room. Shows crack in bedplate, and mounting bolts partially stripped out of bedplate. Picture taken looking aft.

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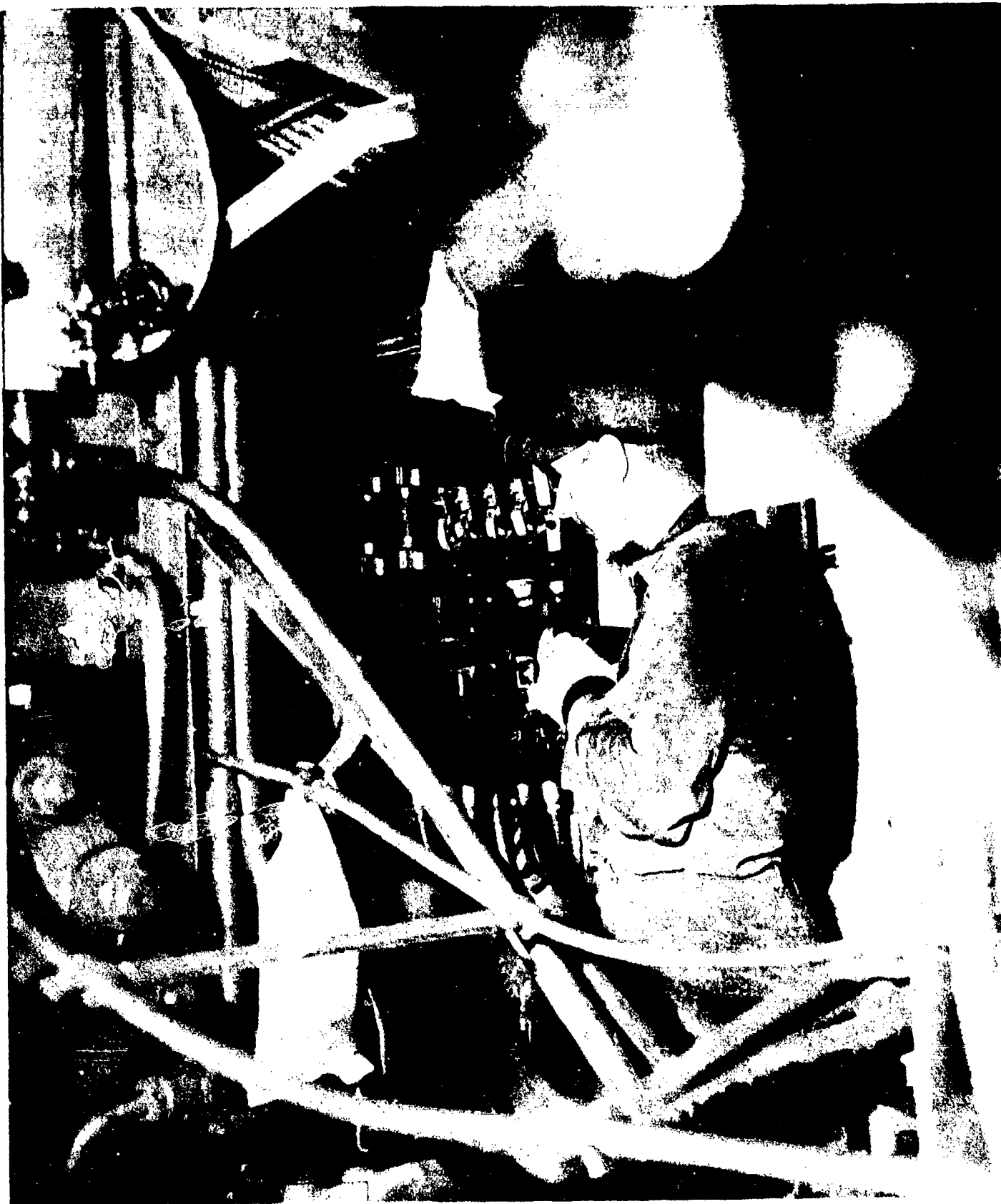
AB-CR-80-1681-5. Low pressure air compressor in after fire room.
Shows damaged motor being inspected.

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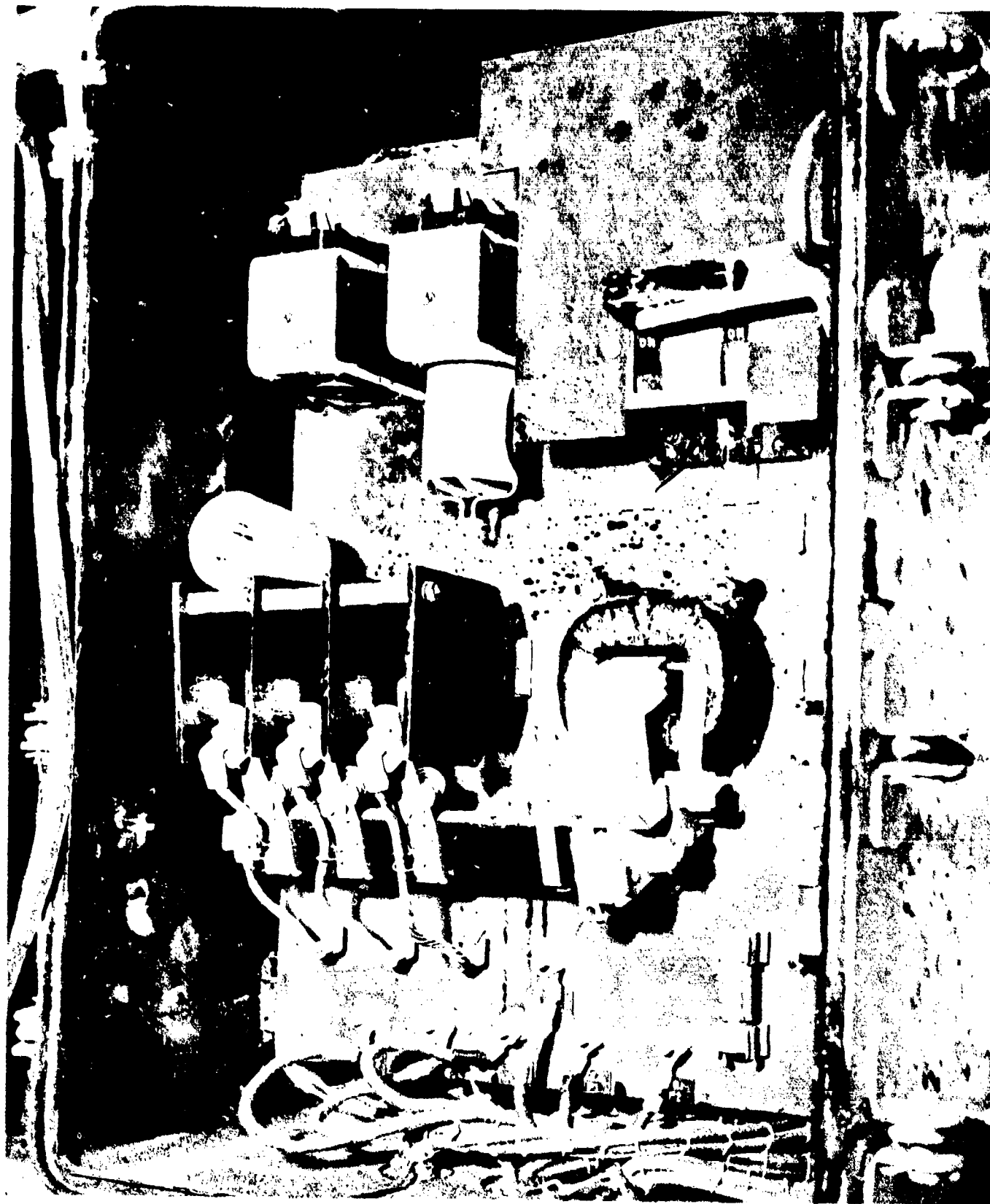
AB-CR-80-1681-8. Steering gear motor controller in steering engine room. Shows damaged open phase indicator relay being inspected.

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AB-CR-76-1932-8. Motor controller for 5 inch loading machine, mounted in the battery charging and electric workshop. Shows displaced overload dashpot.

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AB-CR-76-1932-10. Longitudinal wireway in battery charging and electric workshop. Shows damaged wireway support. Cables obscure sheared strap bolt. Picture taken looking to port.

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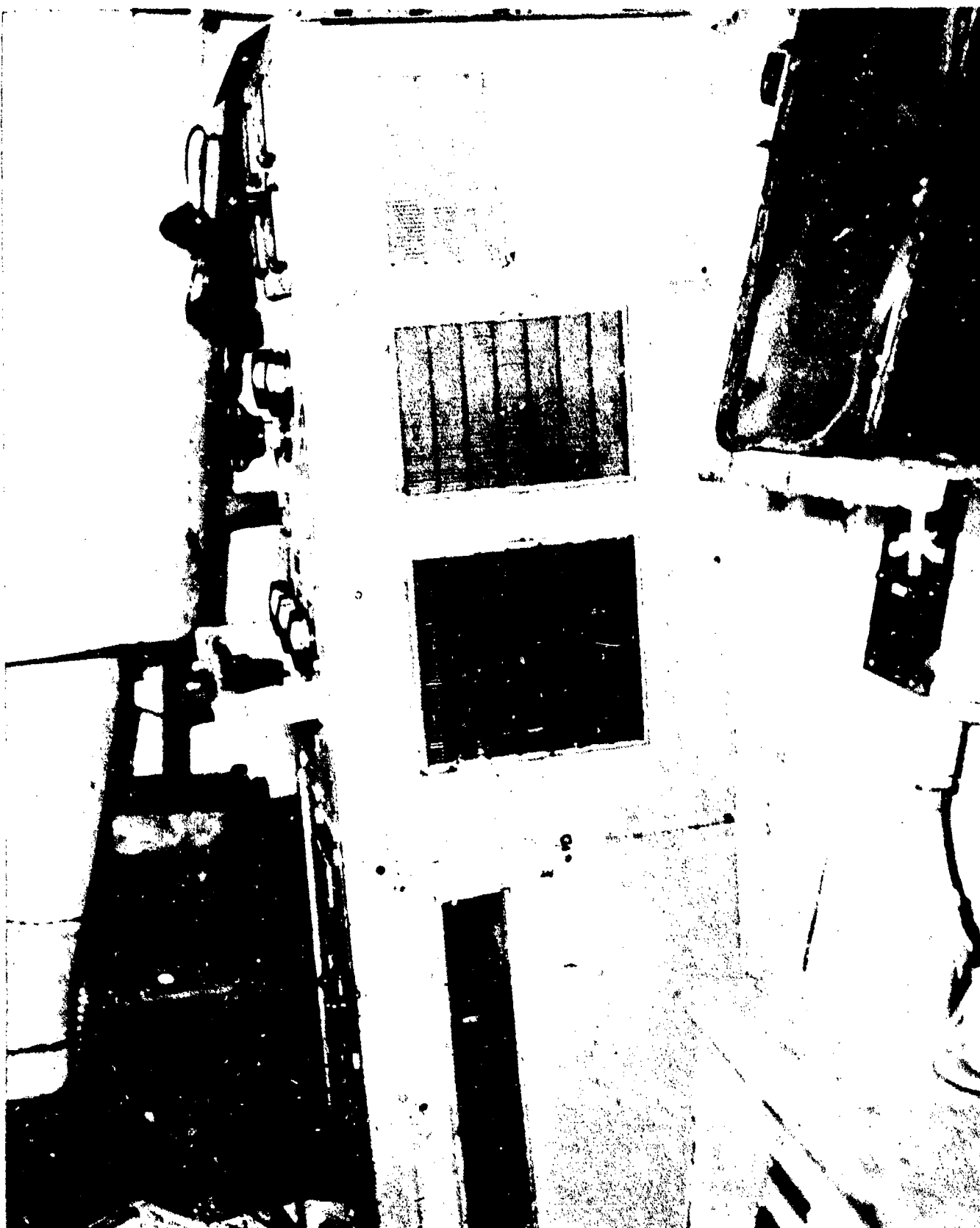
AB-CR-76-1932-9. Longitudinal wireway in battery charging and electric workshop. Shows wireway support weld failure. Picture taken looking to port.

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AB-CR-76-1932-11. Battery charging switchboard in battery charging and electric workshop. Shows switchboard dislodged from its rear mounting, by damage to the longitudinal joiner bulkhead. Picture taken looking aft.

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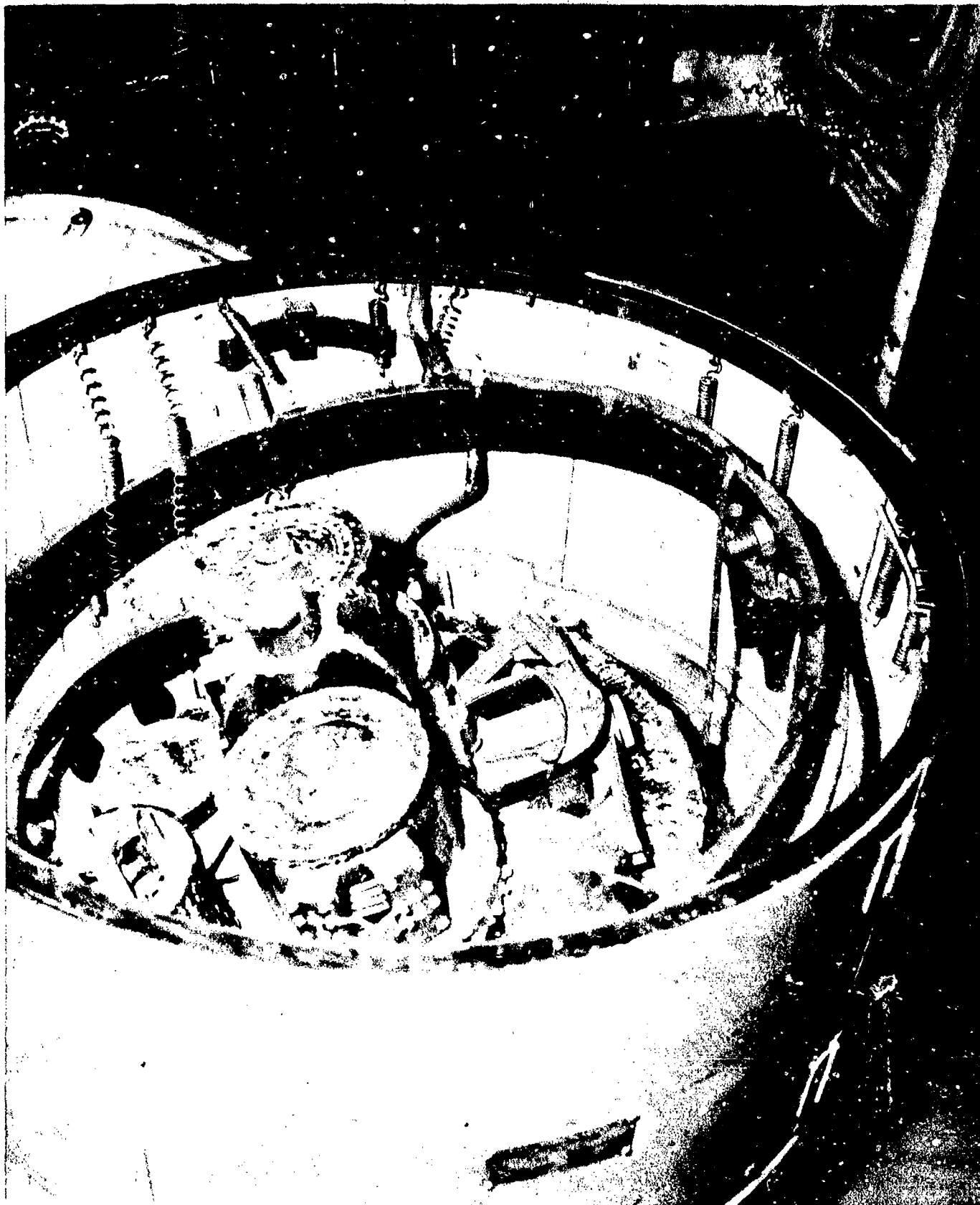
AB-CR-76-1932-12. Storage battery rack in battery charging and electric workshop. Shows batteries dislodged from the battery rack. Picture taken looking towards the port quarter.

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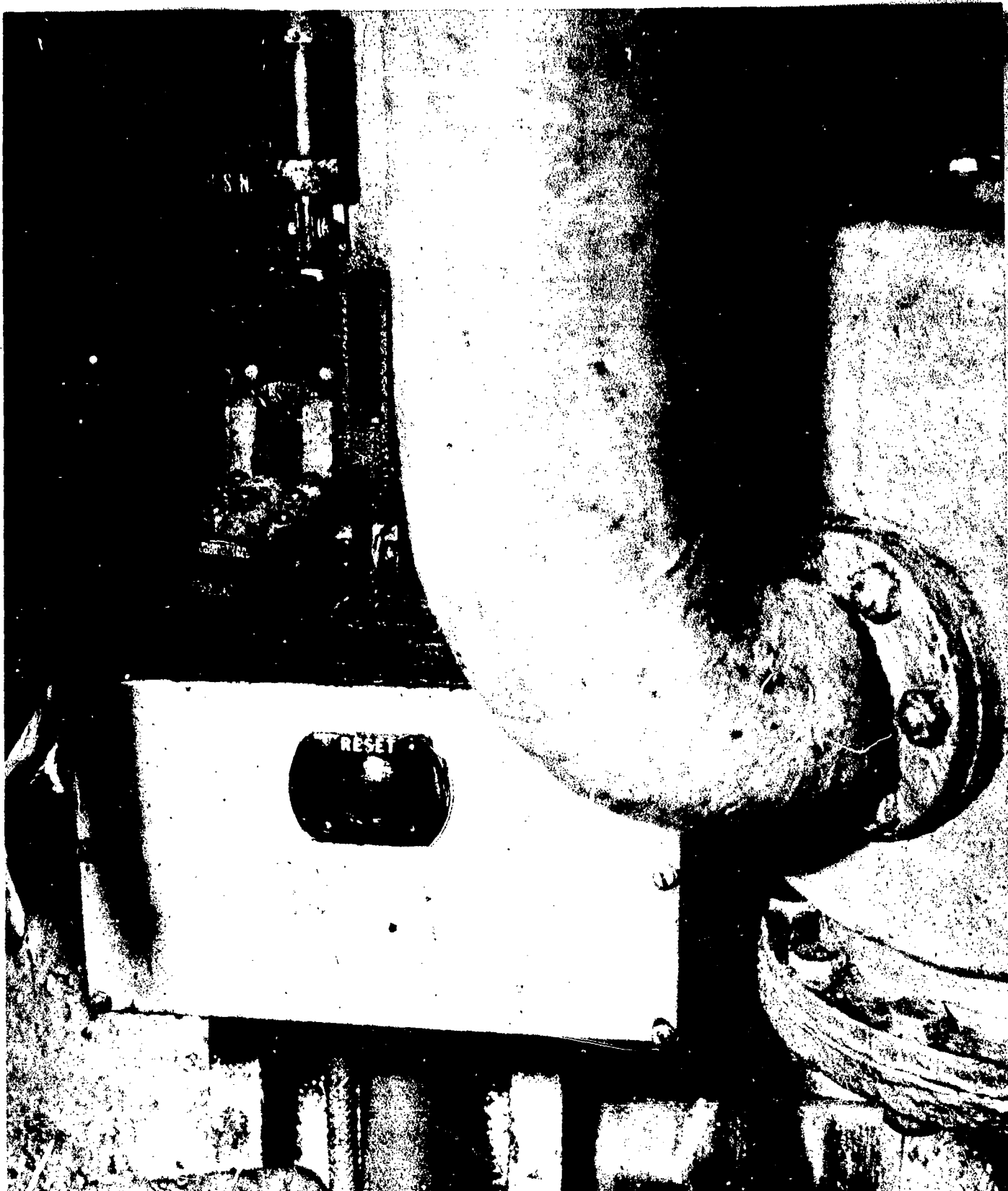
AB-CR-76-1934-1. Gyro compass mounted in the I.C. room. Shows damage to the gimbal mount, and gyro element dropped to the bottom of the binnacle. Dirt and silt were caused by flooding of the space.

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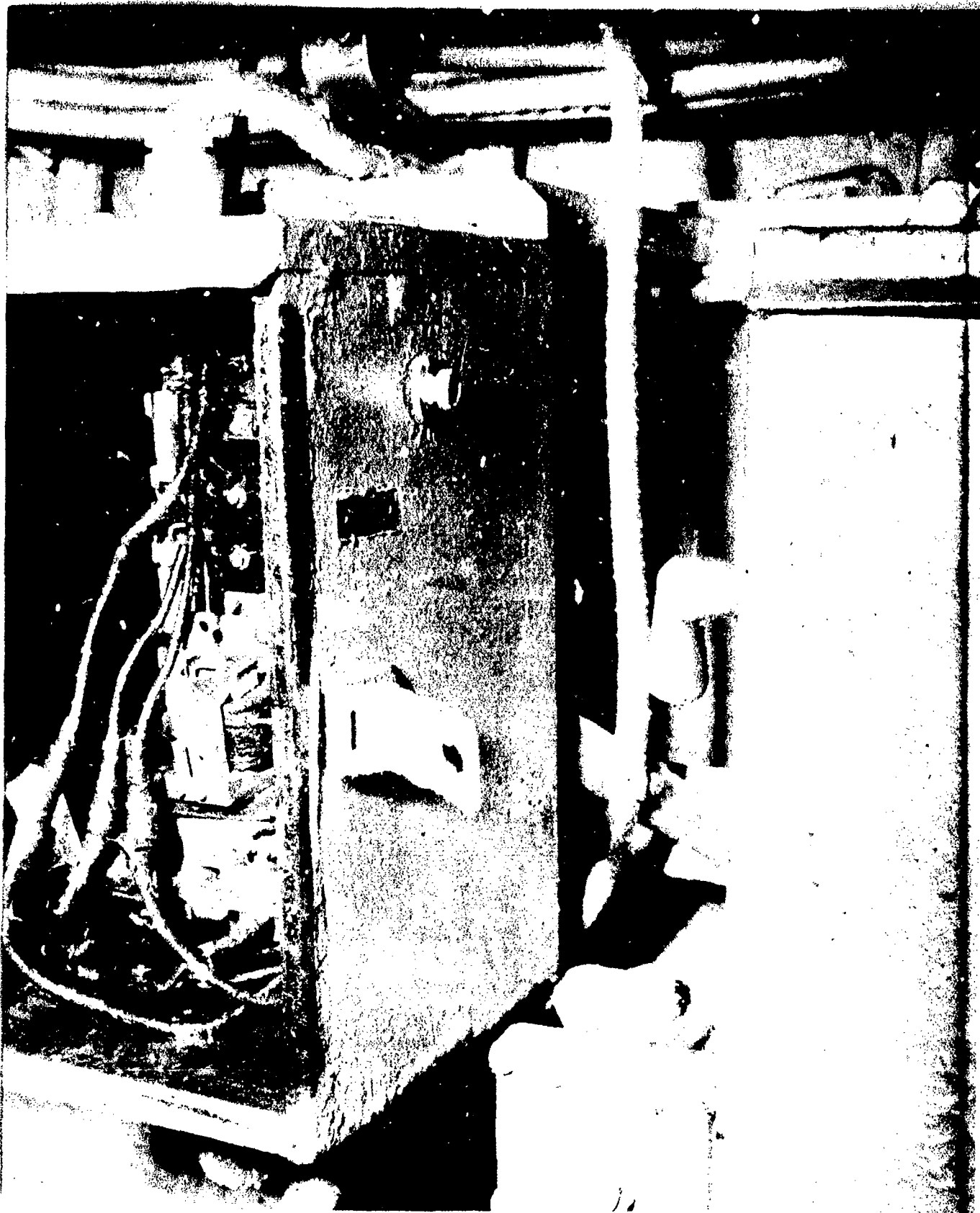
AB-CR-68-2950-1. No. 2 fire and flushing pump motor controller mounted in the starboard side of the lower level of the after engine room. Shows lock-in device distorted. Picture taken looking to starboard.

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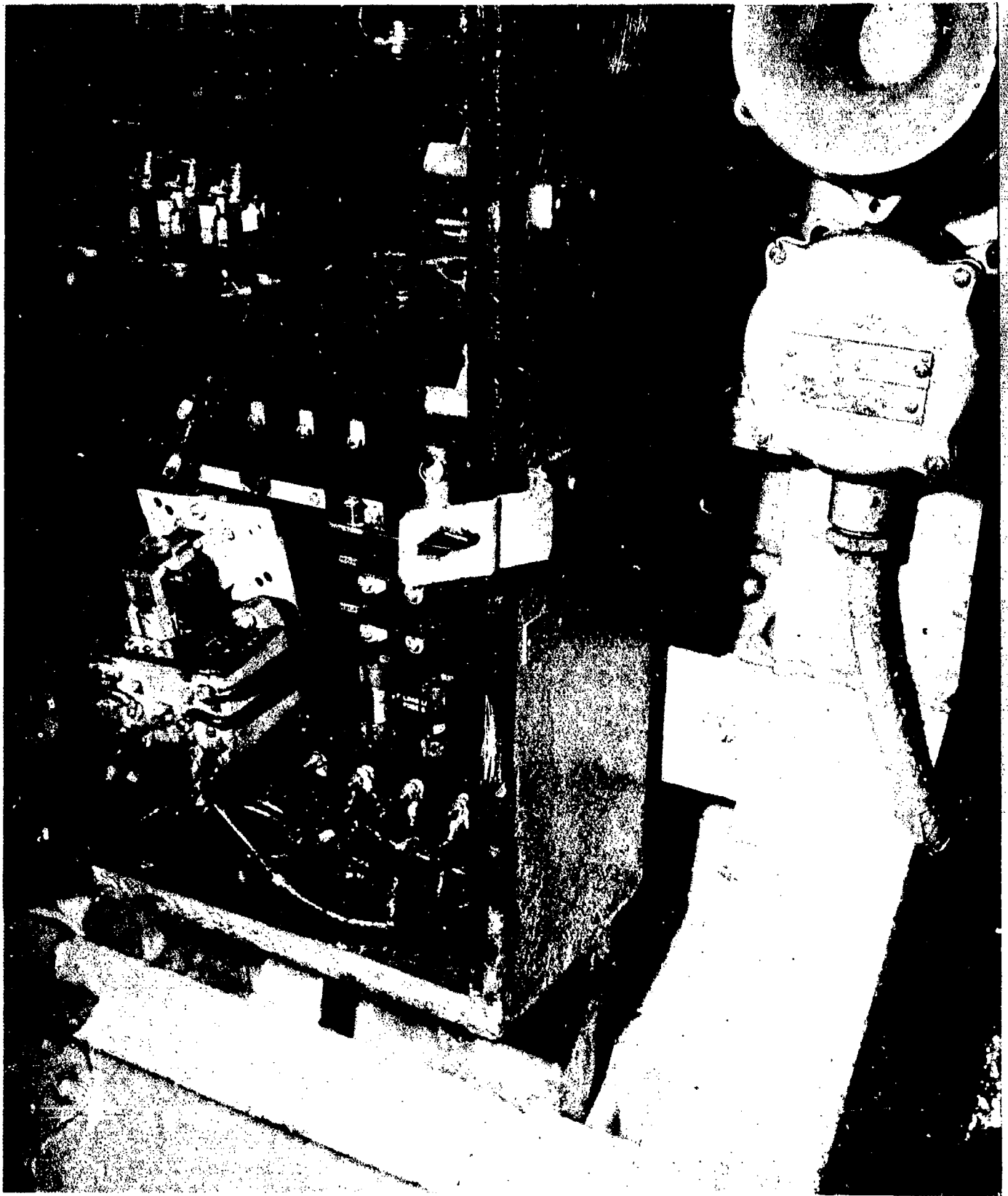
AB-CR-68-2950-2. Distiller condensate circulating pump motor controller mounted in the after engine room. Shows contactor dislodged from the phenolic mounting base. Picture taken looking to starboard.

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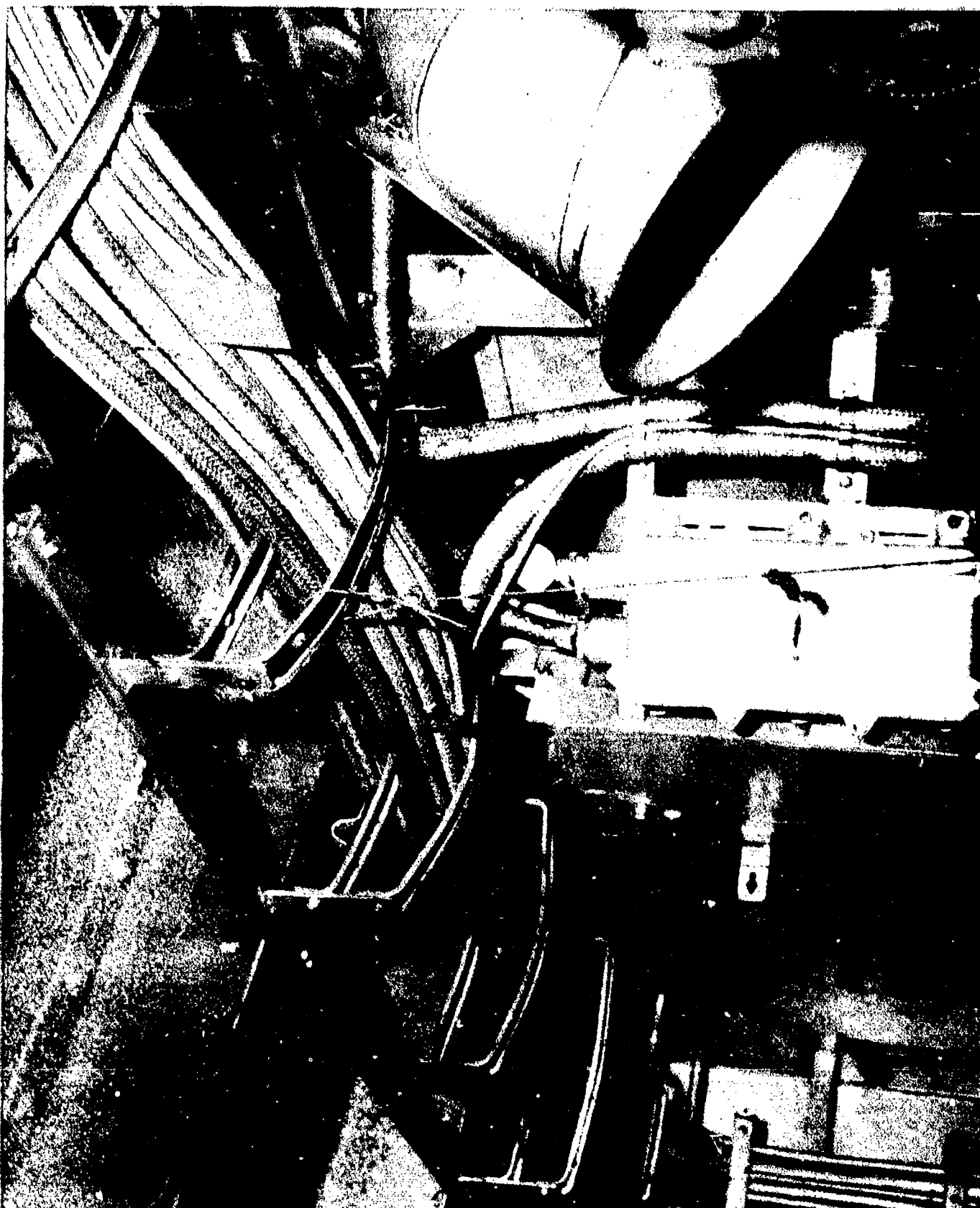
AB-CR-68-2950-3. Diesel fuel oil supply pump motor mounted in the after engine room. Shows contactor broken away from the phenolic base. Picture taken looking to starboard.

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- AB-CR-68-2950-4. Athwartship wireway mounted on the upper level of the after engine room. Shows distortion of bottom supporting channel. Picture taken looking to starboard.

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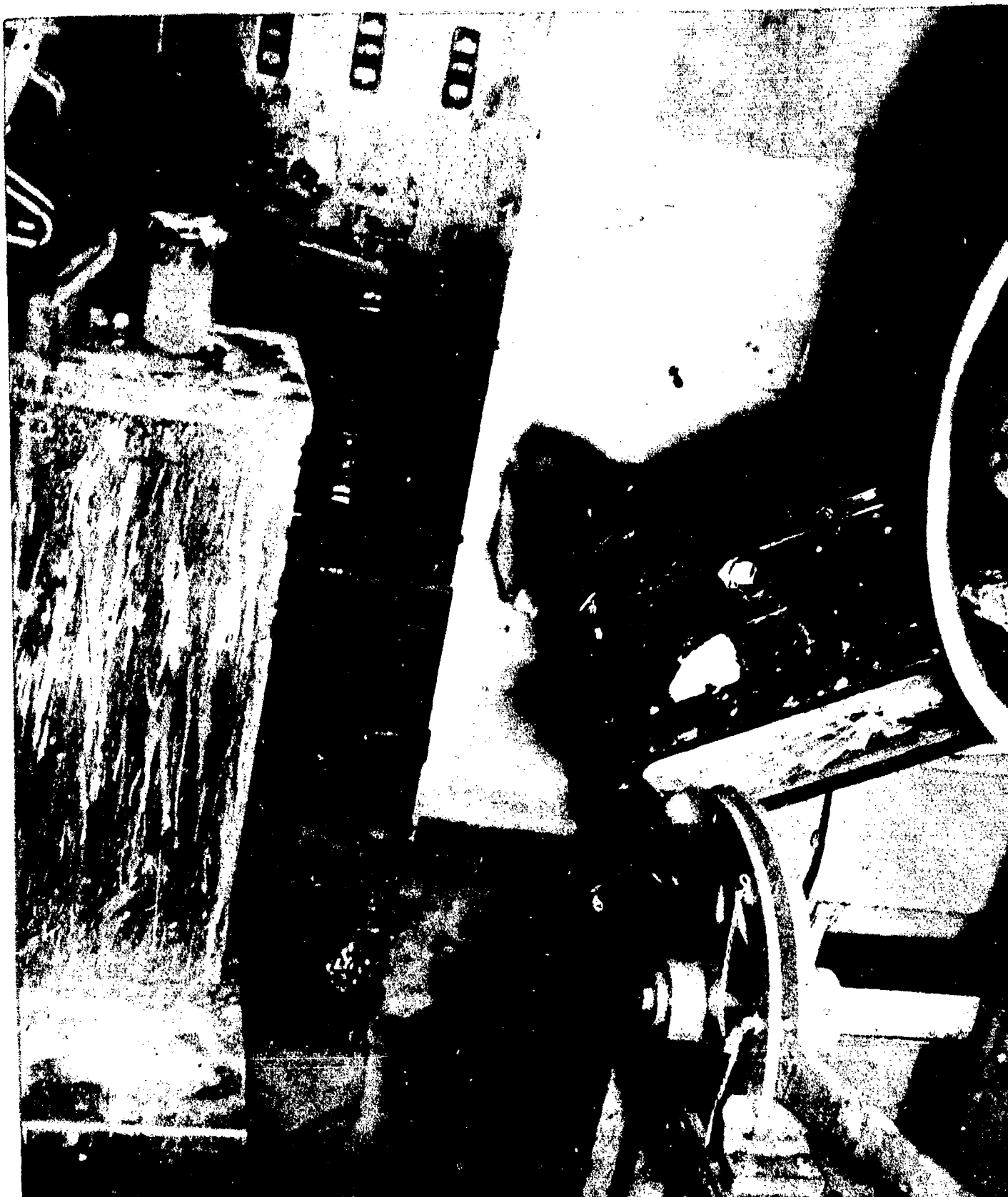
AB-CR-68-2951-1. Turbo-generator supporting stanchion. Shows damage to the stanchion. Picture taken looking to port.

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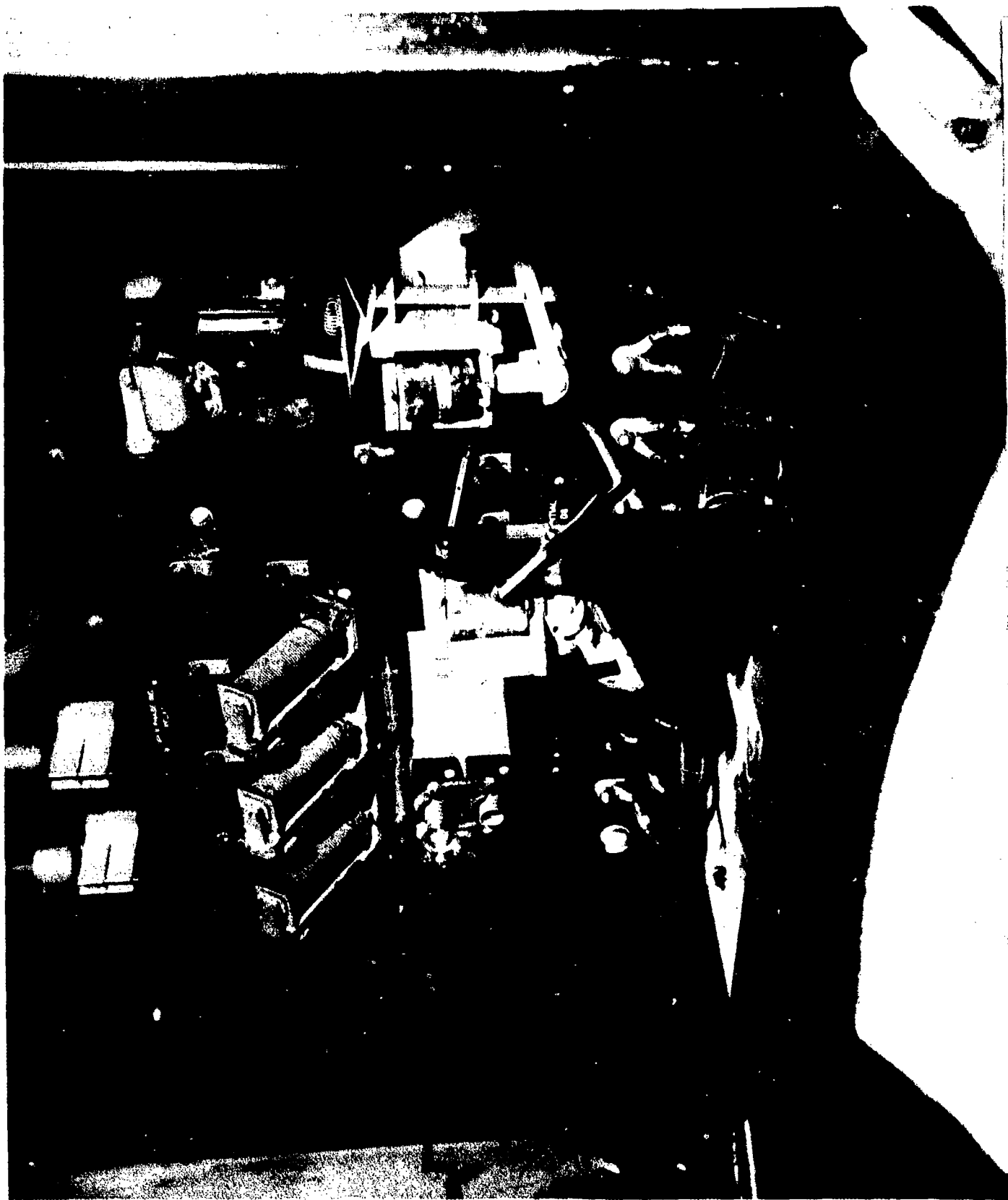
AB-CR-100-4210-2. Gyro compass repeater in the steering engine room. Shows repeater broken off mounting column. Picture taken looking to starboard.

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AB-CR-100-4210-3. Steering control panel in the steering engine room. .
Shows open phase indicator relay broken away from the phenolic panel.
Picture taken looking toward the port quarter.

SECRET

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USS HUGHES (DD410)

8301



Defense Special Weapons Agency
6801 Telegraph Road
Alexandria, Virginia 22310-3398

TRC

18 April 1997

MEMORANDUM FOR DEFENSE TECHNICAL INFORMATION CENTER
ATTENTION: OMI/Mr. William Bush (Security)

SUBJECT: Declassification of Reports

The Defense Special Weapons Agency has declassified the following reports:

✓AD-366588 4	XRD-203-Section 12✓
AD-366589 ✓	XRD-200-Section 9
AD-366590 ✓	XRD-204-Section 13
AD-366591 ✓	XRD-183
✓AD-366586 X	XRD-201-Section 10✓
✓AD-367487 ✓	XRD-131-Volume 2✓
✓AD-367516 4	XRD- 1 143✓
✓AD-367493 ✓	XRD-142✓
AD-801410L✓	XRD-138
AD-376831L✓	XRD-83
AD-366759 ✓	XRD-80
✓AD-376830L X	XRD-79✓
✓AD-376828L 4	XRD-76✓
AD-367464 X	XRD-106✓
AD-801404L✓	XRD-105-Volume 1
AD-367459 X	XRD-100✓

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Subject: Declassification of Reports

AD-801406L ✓ XRD-114.

In addition, all of the cited reports are now **approved for public release; distribution statement "A" now applies.**

Arldith Jarrett
ARDITH JARRETT
Chief, Technical Resource Center